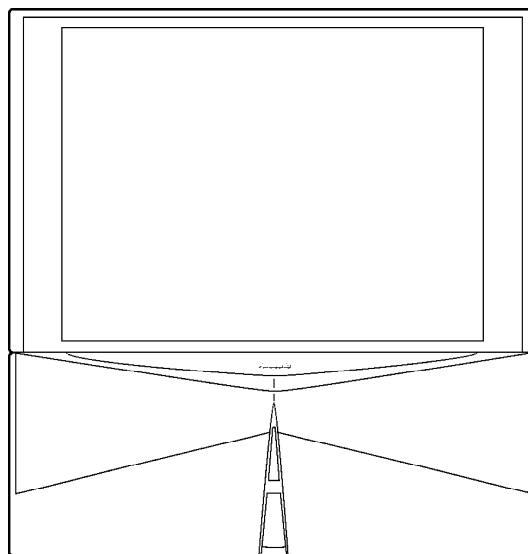


ORDER NO. ITD0308032C3

Projection Television

**TX-51P800X / TX-51P800HM / TX-51P800HQ / TX-43P800X /
TX-43P800HM / TX-43P800HQ / TX-43P800HZ
GP1VP**



SPECIFICATIONS

Specifications

	TX-43P800H / TX-51P800H	TX-43P800X / TX-51P800X
Power Source	AC 220 - 240 V, 50 / 60 Hz	AC 110 - 240 V, 50 / 60 Hz
Power Consumption	Stand-by condition 0.5 W Normal viewing 175 W TX-43P800H / X	Stand-by condition 0.5 W Normal viewing 175 W TX-51P800H / X
Dimensions (W × H × D)	1095 mm × 1267.5 mm × 547 mm	1298 mm × 1394 mm × 547 mm
Mass (Weight)	60 kg (Net)	66 kg (Net)
Remote control Transmitter	EUR511254 R6 (AA) Battery × 2	

Receiving System

21 Systems		Function
1	PAL B, G, H	Reception of broadcast transmissions and Playback from Video Cassette Tape Recorders.
2	PAL I	
3	PAL D, K	
4	SECAM B, G	
5	SECAM D, K	
6	SECAM K1	
7	NTSC M (NTSC 3.58/4.5 MHz)	

21 Systems		Function
15	PAL 60 Hz/5.5 MHz	Playback from Special Disc Players and Special VCR's
16	PAL 60 Hz/6.0 MHz	
17	PAL 60 Hz/6.5 MHz	
18	SECAM 60 Hz/5.5 MHz	
19	SECAM 60 Hz/6.0 MHz	
20	SECAM 60 Hz/6.5MHz	
21	NTSC 50 Hz/ 4.5 MHz	

21 Systems		Function
8	NTSC 4.43/5.5 MHz	Playback from Special VCR's
9	NTSC 4.43/6.0 MHz	
10	NTSC 4.43/6.5 MHz	
11	NTSC 3.58/5.5 MHz	
12	NTSC 3.58/6.0 MHz	
13	NTSC 3.58/6.5 MHz	
14	SECAM I	

Receiving Channels

Regular TV VHF BAND

- 2-12 (PAL/SECAM B, K1)
- 0-12 (PAL B AUST.)
- 1-9 (PAL B N.Z)
- 1-12 (PAL/SECAM D)

	1-12 (NTSC M Japan)	
	2-13 (NTSC M U.S.A)	
	UHF BAND	
	21-69 (PAL G, H, I/SECAM G, K, K1)	
	28-69 (PAL AUST.)	
	13-57 (PAL D, K)	
	13-62 (NTSC M Japan)	
	14-69 (NTSC M U.S.A)	
	CATV	
	S1-S20 (OSCAR)	
	1-125 (U.S.A CATV)	
	C13-C49 (JAPAN)	
	S21-S41 (HYPER)	
	Z1-Z37 (CHINA)	
	5A, 9A (AUST.)	
Receiving Stereo System	NICAM I, NICAM B/G, NICAM D, A2 (German)	
Tuning System	Frequency synthesizer	Auto Search Tuning
		POSITION: 100 Position
		DIRECT: 125 Position
Audio Output	40 W [20 W + 20 W] (10 % THD)	
Speaker System	Woofer (13 cm) x 2 + Squawker (12 cm x 6 cm) x 2.....TX-43P800H/X	
	Woofer (13 cm) x 2 + Squawker (12 cm x 6 cm) x 2 + Tweeter(5 cm) x 2.....TX-51P800H/X	
Headphones	3.5 mm Plug x 1	
Aerial Impedance	75 Ω Unbalanced coaxial	
Video / Audio / Component Terminals		
AV 1, 2, 3, 4,	S Video In	Y: 1 V p-p, 75 Ω
		C: 0.3 V p-p, 75 Ω
	DVD (Y/ PB / PR)	
	Video In	1 V p-p, 75 Ω
	Audio In	Approx. 0.5 V 47 K Ω
Monitor Out	Video Out	1 V p-p, 75 Ω
	Audio Out	Approx. 0.5 V, 1 K Ω
AV1 IN (Rear): S Video, Video, Audio L/R terminals		
AV2 IN (Rear): Video or Y/ PB / PR , Audio L/R terminals		
AV3 IN (Front): S Video, Video, Audio L/R terminals		
AV4 IN (Rear): Video or Y/ PB / PR , Audio L/R terminals		
Applicable signal to AV2, AV4 Y/ PB / PR input terminals: 480i (525i), 576i (625i), 480P (525P) and 576P (625P)		

Notes: Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.

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1. Safety Precautions

1.1. General Guide Lines

- 1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.**
- 2. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits.
If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.**
- 3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations, are properly installed.**
- 4. When the receiver is not to be used for a long period of time, unplug the power cord from the AC outlet.**
- 5. Potential, as high as 30.0kV , is present when this monitor is in operation. Operation of the Projection Monitor without the rear cover involves the danger of a shock hazard from the power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the projection tube to the Projection Monitor chassis before handling**

the tube.

6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

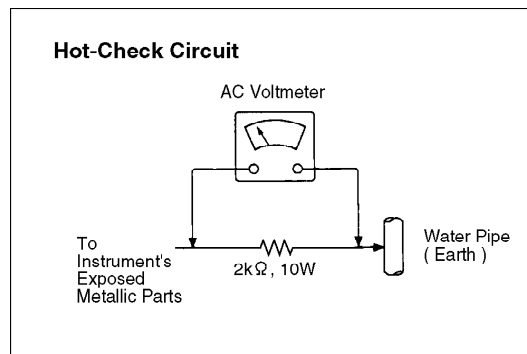
1.2. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Turn on the Projection Monitor's power switch.
3. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the projection monitor, such as screw heads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 4 M Ω and 20 M Ω . When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

1.3. Leakage Current Hot Check (See [Fig. 1](#))

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2k Ω , 10W resistor, in series with an exposed metallic part on the projection monitor and an earth such as a water pipe.
3. Use an AC voltmeter, with high impedance type, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.0V rms. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the projection monitor should be repaired and rechecked before it is returned to the customer.

Fig. 1



1.4. X-Radiation

Warning :

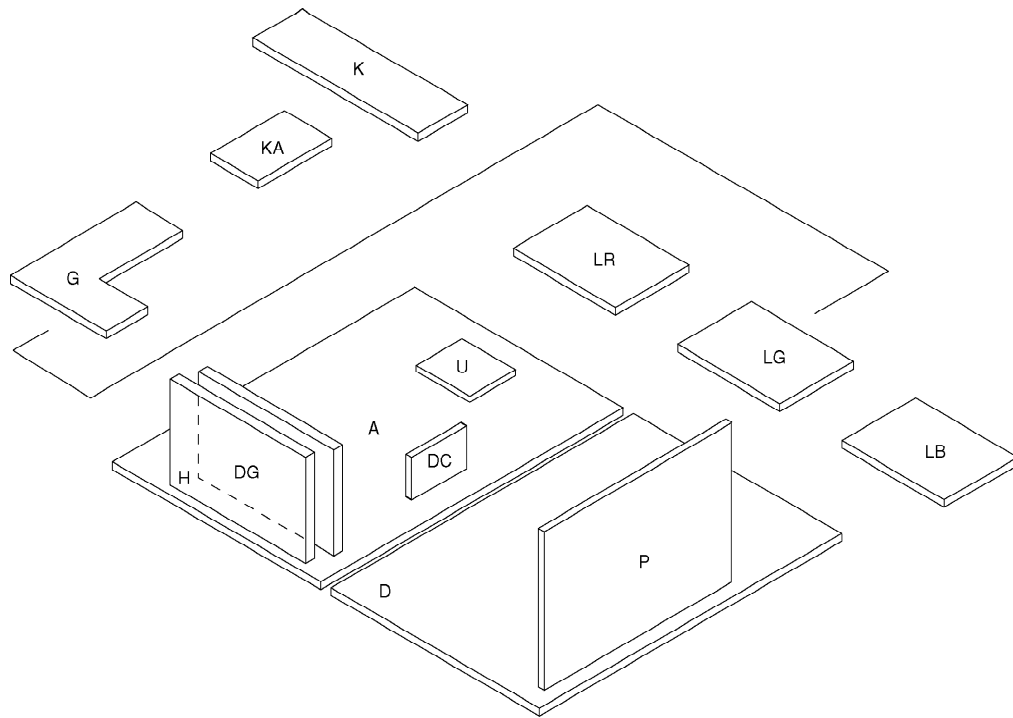
1. The potential sources of X-Radiation in projection monitor are the High Voltage section and the projection tube.
2. When using a projection tube test jig for service, ensure that jig is capable of handling 30.0kV without causing X-Radiation.

Note:

It is important use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum.
2. Set the service switch to the service position.
3. Measure the High Voltage. The meter reading should indicate 30.0 ± 1.0 kV . If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
4. To prevent an X-Radiation possibility, it is essential to use the specified projection tube.

2. Chassis Board Layout

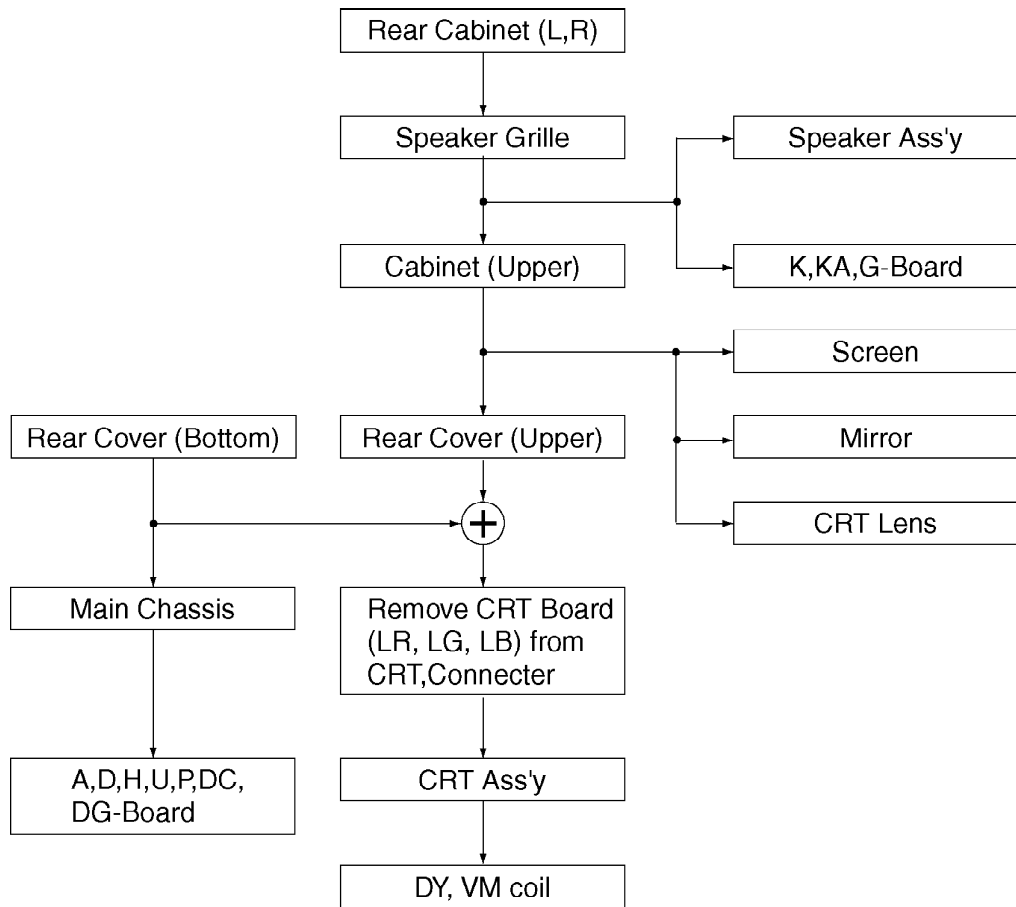


Board-Name	Function
A-Board	Main Signal, Digital Converter
P-Board	Line Filter
D-Board	Deflection, High Voltage
LR-Board	CRT Drive (R)
LG-Board	CRT Drive (G)
LB-Board	CRT Drive (B)
H-Board	Rear terminal
U-Board	MPU
DG-Board	Digital Core
DC-Board	Convergence
G-Board	Front Terninal
K-Board	Power Switch
KA-Board	Blue light

3. Disassembly for Service

This flowchart indicates disassembly items of the cabinet parts and circuit boards in order to find the items necessary for servicing, when reassembling, perform the procedures in the reverse order.

3.1. Disassembly Flowchart

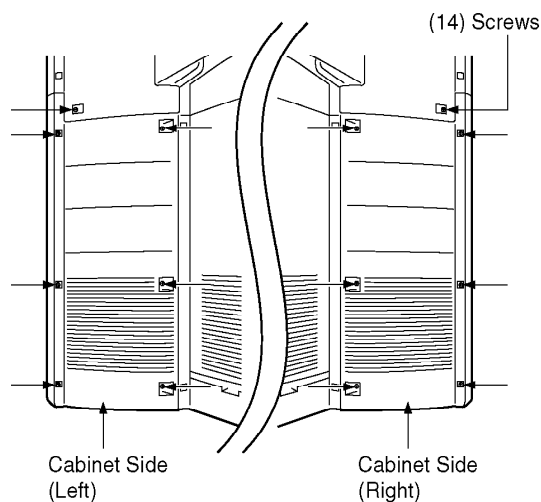


Note:

Board ground wires may have to be disconnected to disassemble some boards. All ground wires must be reconnected using jumper leads if necessary before power is applied to Receiver for service.

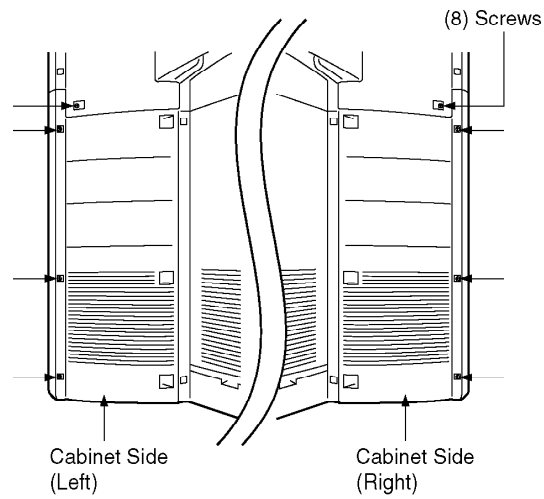
3.2. Cabinet Side (L, R)

1. Remove (14) screws.

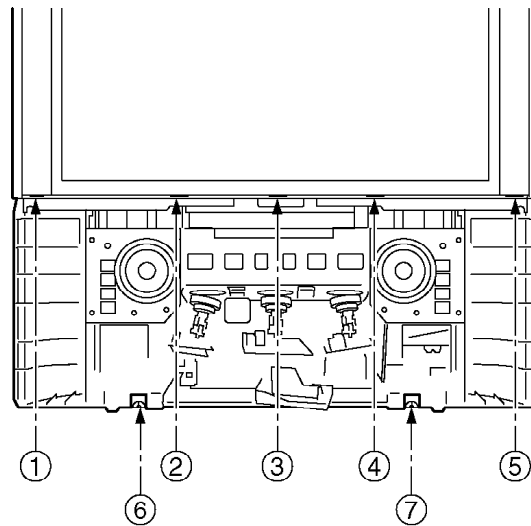


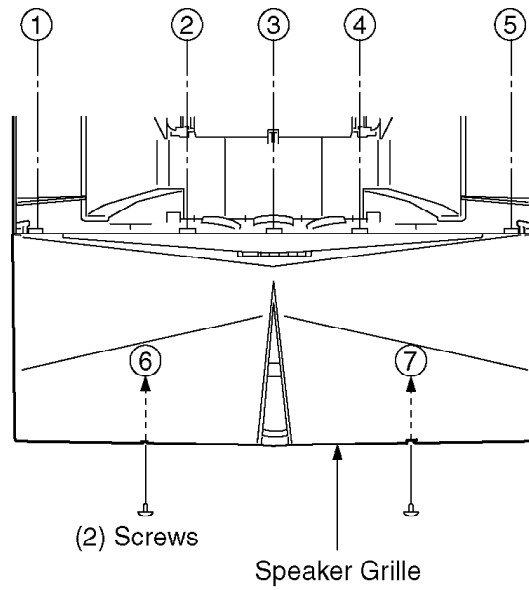
3.3. Speaker Grille

1. Remove (8) screws.



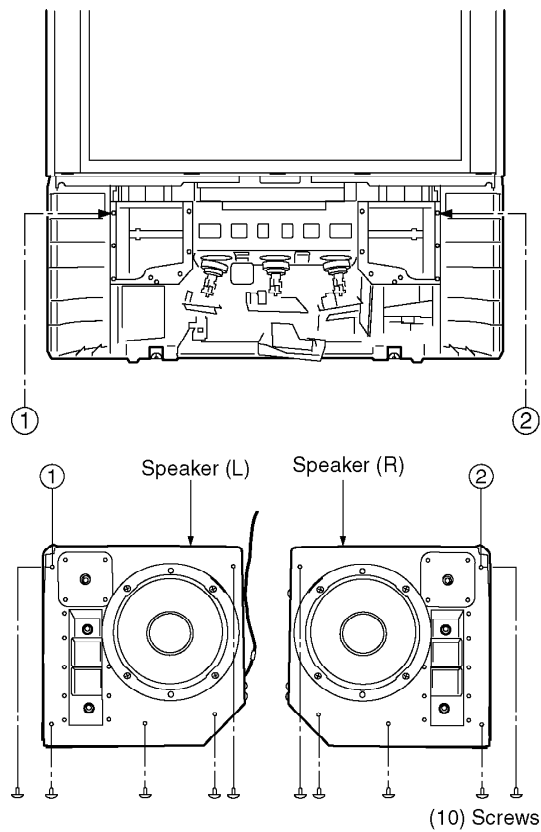
2. Remove (2) screws.





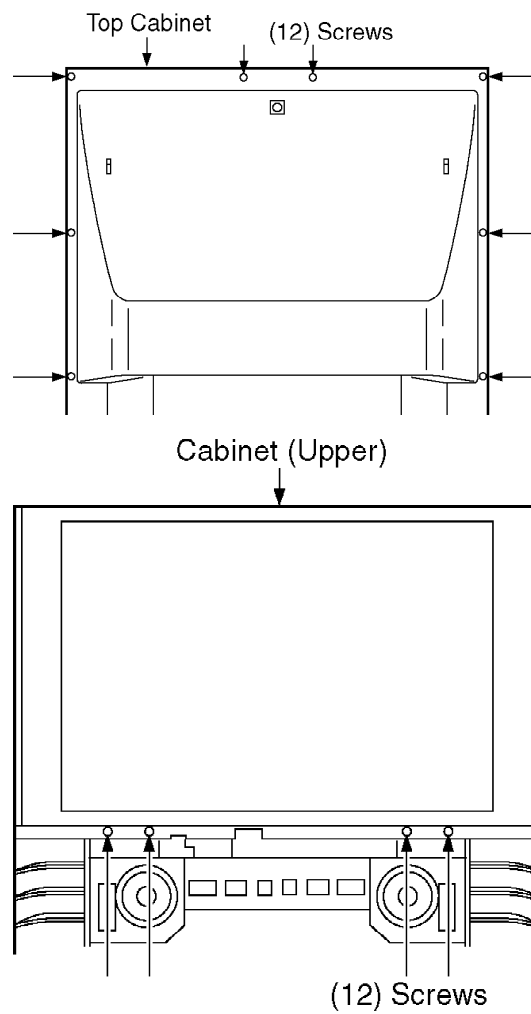
3.4. Speaker Ass'y

1. Remove (10) screws.



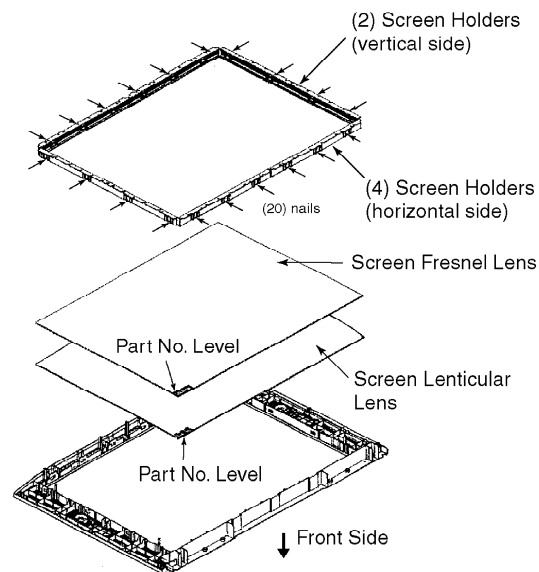
3.5. Cabinet (Upper)

1. Remove (12) Screws.



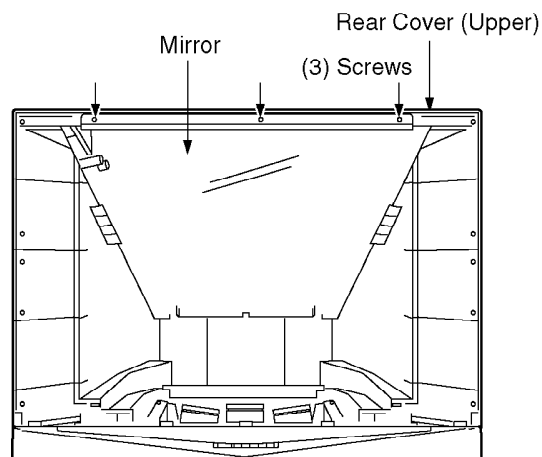
3.6. Screen

1. Remove (20) nails, and remove (2) Screen Holders (vertical side) and (4) Screen Holders (horizontal side).



3.7. Mirror

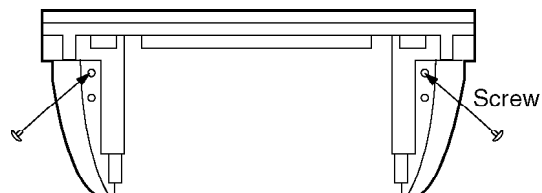
1. Remove (3) screws.



3.8. Rear Cover (Upper)

1. Remove the Cabinet (Upper).

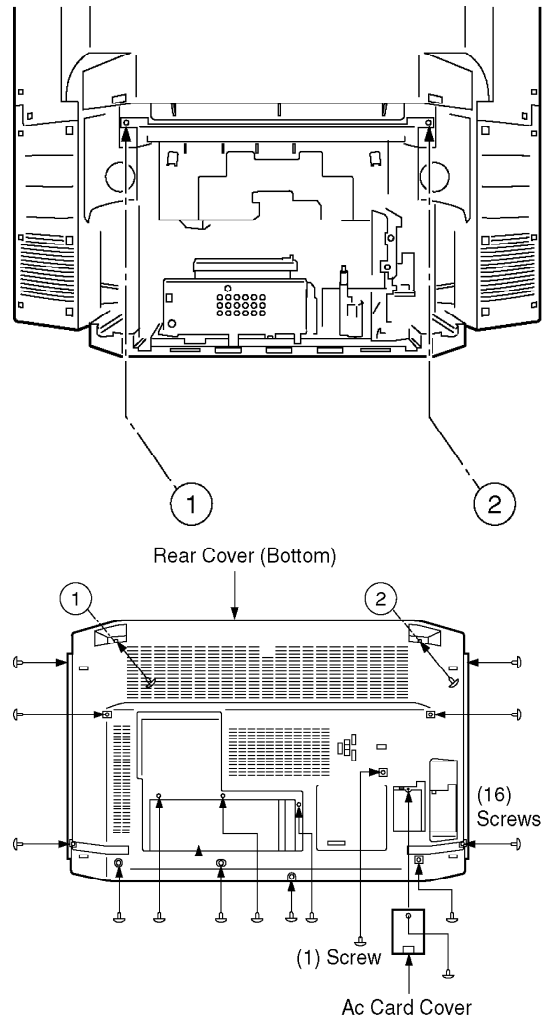
2. Remove (2) screws.



3.9. Rear Cover (Bottom)

1. Remove (16) screws.

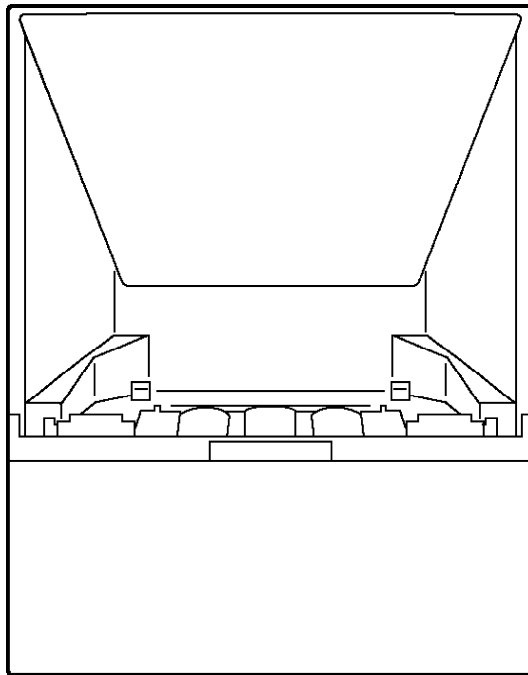
2. Remove (1) screw.



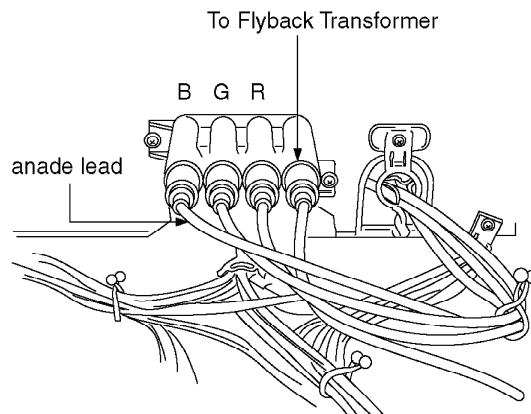
3.10. Disassembly For CRT Removal

To facilitate CRT replacement, the complete CRT mounting chassis does not need to be removed.

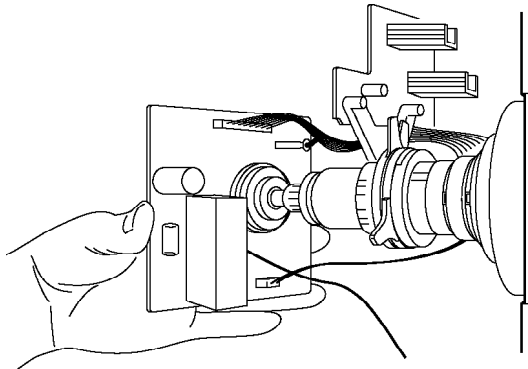
1. Remove the Screen Frame Ass'y, Decorative Panel and the Bottom Rear Cover Ass'y. (See Disassemble for Service).



2. Unplug the defective CRT Dag (GND), from the CRT Board, LBGND for LB, LGGND for LG, LRGND for LR.
3. Remove lead wires (DY, VM coil) and anode lead wire from holders as necessary.

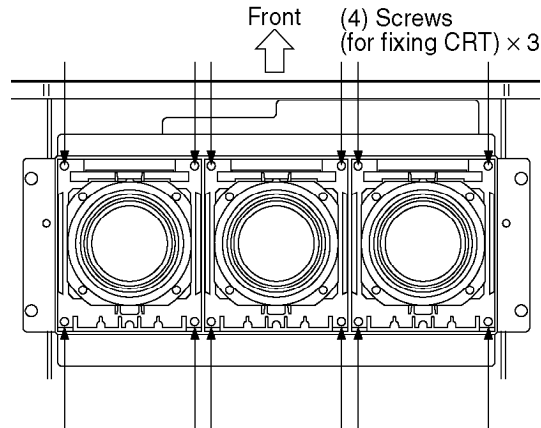


4. Remove the CRT Board from the defective CRT neck.



5. Note position of yoke with centering tabs and remove from defective CRT.

6. From the Top, remove (2) screws from the defective CRT.



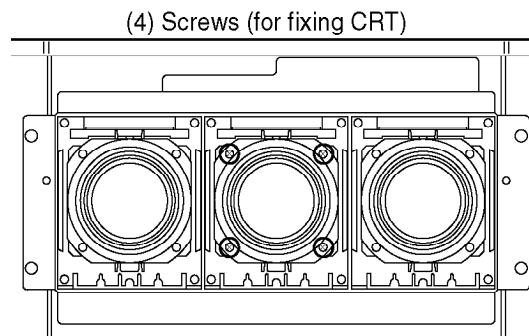
7. Release CRT anode lead from CRT chassis wire clamp and all other wires from holders.

8. Wire the anode lead wire.

9. Lift out CRT assembly with lens assembly and other CRT neck assemblies.

10. Lay CRT face down on a soft cloth.

11. Remove CRT lens by removing (4) screws.

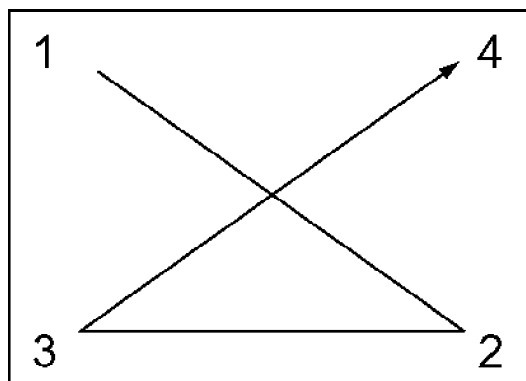


12. Install yoke and VM coil with other CRT neck assemblies on CRT neck in the same order and position as removed from the defective CRT.

13. Push yoke against bell of CRT and tighten the clamp just snug enough so it will not easily shift.

14. Assemble CRT focus lens assembly to new CRT with (4) screws. Make sure focus lens adjustment nut is in the same location as on

other CRT focus lens.



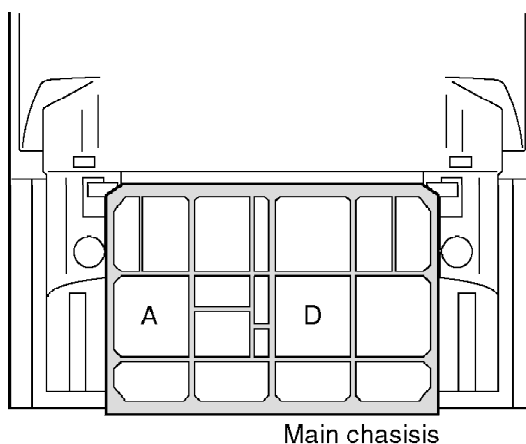
Note:

Please assemble with screws in the order shown in detail and tighten with same torque.

4. Service Hints

4.1. Service position for Main chassis

1. Remove the Rear Cover (Bottom) by removing (16) screws and (1) screws around its perimeter.
2. Remove lead wires and bundles from holders as necessary.
3. Pull out main chassis and stand it.

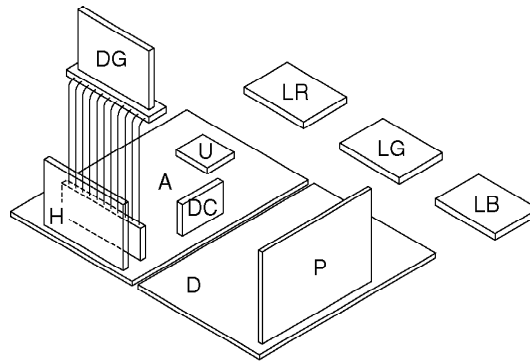


4.2. Service Position for DG-Board

1. Remove the each circuit board from A or D-Board.
2. Connect extension cables between individual circuit board and A or D-Board.

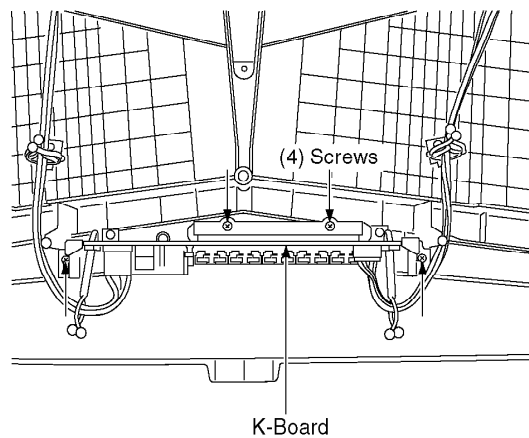
Note:

Extension cable kit is supplied as service fixtures and tools. (Part No. TZSC0724)



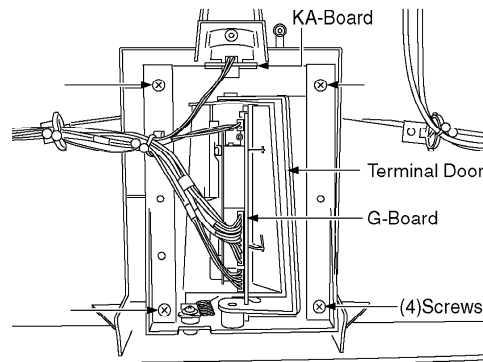
4.3. Service Position for K-Board

1. Remove the Speaker Grille.
2. Remove the K-Board by (4) screws.

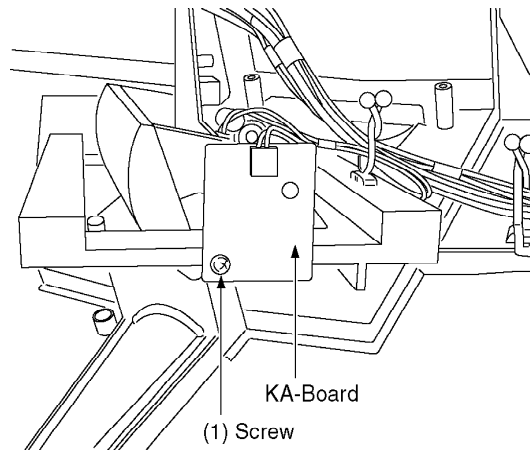


4.4. Service Position for KA-Board

1. Remove the Speaker Grille.
2. Remove the Terminal Door by (4) screws.

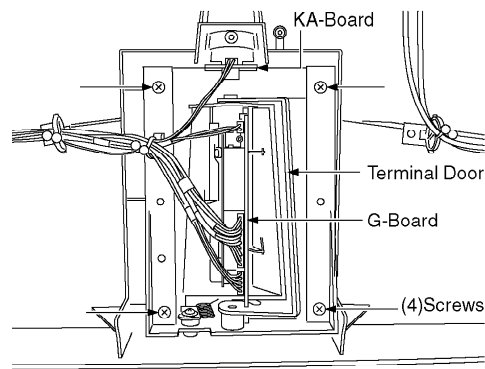


3. Remove the KA-Board by (1) screws.

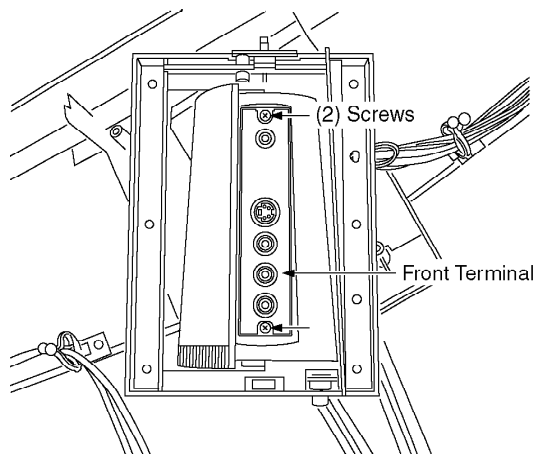


4.5. Service Position for G-Board

1. Remove the Speaker Grille.
2. Remove the Terminal Door by (4) screws.



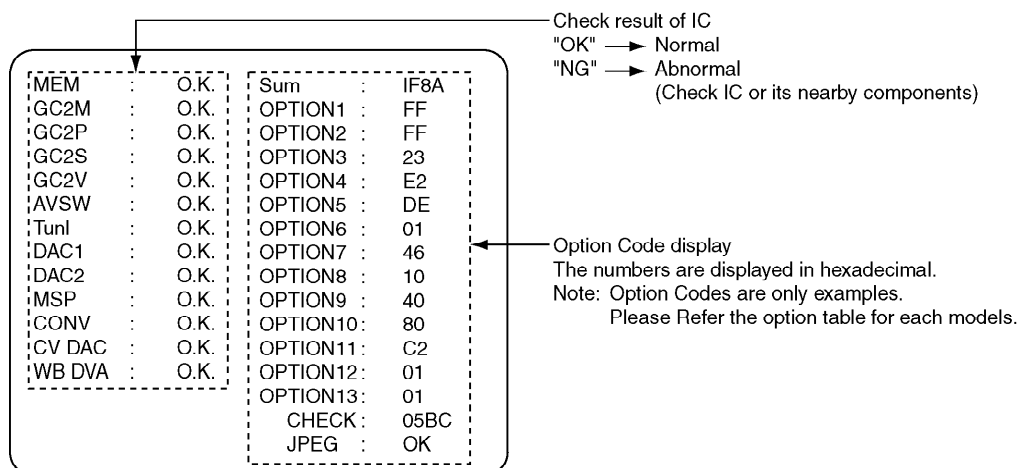
3. Remove the G-Board by (2) screws.



5. Self Check

1. Self-Check is used to automatically check the bus lines and hexadecimal code of the TV set.

2. To get into the Self -Check mode press the down (—/√) button on the customer controls at the front of the set, at the same time pressing the HELP button on the remote control, and the screen will show :



If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "O.K.".

Display	Ref. No.	Description	P.C.B.
MEMORY	IC1104	Memory	U-Board
GC2M	IC1301	Grobal Core MAIN	DG-Board
GC2P	IC1304	Grobal Core SUB1	DG-Board
GC2S	IC1302	Grobal Core SUB2	DG-Board
GC2V	IC1350	Grobal Core	DG-Board
AVSW	IC3003	AV Switch	H-Board
Tun1	TNR001	Tuner	A-Board
DAC1	IC1004	DAC control1	A-Board
DAC2	IC7110	DAC control2	DC-Board
MSP	IC2002	Stereo Decoder	A-Board
CONV	IC7107	Convergence	DC-Board
CV DAC	IC7301	Conv. DAC	A-Board
WB DAC	IC7702	WB DAC control	A-Board

6. Service Mode Function

MPU controls the functions switching for each IICs through IIC bus in this chassis. The following setting and adjustment can be adjusted by remote control in Service Mode.

6.1. How to enter SERVICE 1

1. In sound menu, set BASS to MAX, and set TREBLE to MINIMUM.
2. Simultaneously press INDEX button on remote control and VOLUME DOWN button [-] on the TV set.

6.2. How to enter SERVICE 2

1. Set the channel to CH99.
2. Press HOLD button on remote control.

Note:

To exit to Service mode, press N or Power button on remote control.

SERVICE 1			
Function	Average Data		
H-Pos	438		
V-Pos	132		
H-Amp	28		
V-Amp	119		
Parabola	68		
Trapezoid	131		
H-Parallel	8		
V-Linear	134		
Top-Corner	180		
Bottom-Corner	180		
V-S-Correct	55		
C-Correct	7		
IVBL C	160		
G-LIMIT	255		
B-LIMIT	255		
WB-B-G-ST1	255		
R High(Drive)	0128		
G High(Drive)	0128		
B High(Drive)	0128		
R Low(Cut off)	0690		
G Low(Cut off)	0640		
B Low(Cut off)	0640		
Sub-Bright	168		
Sub-Contrast	154		
Sub-Colour	26		
Sub-NTSC Tint	-4		
SECAM B-Y	192		
SECAM R-Y	70		
Sub-NTSC Tint2	129		
Sub SECAM B-Y	192		
Sub SECAM R-Y	70		
Video Gain 2	20		
SDRAM-F	-1		
DAF-H-PARA	312		
DAF V-SAW	9		
DAF V-PARA	28		
Coarse Convergence	Access		
Fine Convergence	Access		

CH99
+
HOLD button

CH99
+
INDEX button

SERVICE 2			
Function		Function	
Y/C Delay	04	OPTION 8	10
OPTION 1	FF	OPTION 9	40
OPTION 2	FF	OPTION 10	80
OPTION 3	23	OPTION 11	C2
OPTION 4	E2	OPTION 12	01
OPTION 5	DE	OPTION 13	01
OPTION 6	01	Hours	00005
OPTION 7	46		

- Press the RED/GREEN button to step up/down through the functions.
- Press the YELLOW/BLUE button to change the function values.
- Press the STR button after each adjustment has been made to store the required values.

6.3. Option Description

Options	HQ	HM	X		ASIA	
option1	6F	6F	6F			
0E0	b0	1	1	1	Colour system	Auto (1)
	b1	1	1	1		SECAM (1)
	b2	1	1	1		NTSC (1)
	b3	1	1	1		M.NTSC (1)
	b4	0	0	0	JPEG (1)	enable (1)
	b5	1	1	1	BBE (1)	enable (1)
	b6	1	1	1	BLUE LED (1)	enable (1)
	b7	0	0	0	YUV-SW (1)	enable (1)
option2	FF	FF	FF			
0E1	b0	1	1	1	CH Plan	ASIA / M.E. / HK / UK / CHINA (1)
	b1	1	1	1		NZ/INDNES (1)
	b2	1	1	1		AUSTRALIA (1)
	b3	1	1	1		E.EUROPE (1)
	b4	1	1	1		SPECIAL (1)
	b5	1	1	1		AMERICA (1)
	b6	1	1	1		CATV (1)
	b7	1	1	1		JAPAN (1)
option3	21	21	21			
0E2	b0	1	1	1	sub picture	without sub-picture (0), with sub-picture (1)
	b1	0	0	0	2tuner	2tuner (1), 1tuner (0)
	b2	0	0	0	VGA	enable (1)
	b3	0	0	0	AV5	enable (1)
	b4	0	0	0	Wide (16:9)	16:9 (1), 4:3 (0) (change multi window / aspect operation)
	b5	1	1	1	HYPER	UHF only (0), UHF/VHF (1)
	b6	0	0	0	SIF	4.5 / 5.5 / 6.0 / 6.5 (0), 5.5 / 6.0 / 6.5 (1)
	b7	0	0	0		5.5 / 6.5 (2), 6.0 / 6.5 (3)
option4	E2	E2	E2			
0E3	b0	0	0	0	A2 enable	4.5 (1)
	b1	1	1	1		5.5 (1)
	b2	0	0	0		6.0 (1)
	b3	0	0	0		6.5 (1)
	b4	0	0	0	NICAM enable	4.5 (1)
	b5	1	1	1		5.5 (1)
	b6	1	1	1		6.0 (1)
	b7	1	1	1		6.5 (1)
option5	DE	DE	DE			
0E4	b0	0	0	0	A2 select 6.5MHz	5.742MHz (0) 6.742MHz (1)
	b1	1	1	1	NICAM priority	ASIA / M.E. (1)
	b2	1	1	1		HK / UK (1)
	b3	1	1	1		CHINA (1)
	b4	1	1	1		NZ / INDN (1)
	b5	0	0	0		AUSTRA (1)
	b6	1	1	1		E. EURO (1)
	b7	1	1	1		SPECIAL (1)

Options	HQ	HM	X		ASIA
option6	00	00	02		
0E5	b0	0	0	Ext. HV input	Without HV input (0) / with HV input (1)
	b1	0	0	SASO enable	SASO enable (1)
	b2	0	0	Noise mute	Noise mute enable (0)
	b3	0	0	Monitor out AV1 mute	Monitor out AV1 mute (1)
	b4	0	0	Tuner no refresh	Refresh tuner (0), no refresh (1)
	b5	0	0	Tuner	MACO tune r(0), ALPS tuner (1)
	b6	0	0	free	
	b7	0	0		No motion cotrol in film mode (1)
option7	C6	C6	C6		
0E6	b0	0	0	Power up EC-Mode	Power on EC enable (1)
	b1	1	1	CH Blanking	Blanking enable (1)
	b2	1	1	AV Blanking	Blanking enable (1)
	b3	0	0	Auto WIDE	WSS enable only in aspect Auto (0), WSS always enable (1)
	b4	0	0	Volume correction	TV Volume correction enable (1)
	b5	0	0	AVLink	Q-Link on/off selectable in menu (1)
	b6	1	1	MPX/NICAM display	Display NICAM (0), Display MPX (1)
	b7	1	1	Owner ID	enable (1)
option8	D0	50	50		
0E7	b0	0	0	Teletext CH Refrech	enable (1)
	b1	0	0	Geomagnetic Sensor	Geomagnetic sensor enable (1)
	b2	0	0	Geomagnetic Polarity	Geomagnetic polarity +(0), -(1)
	b3	0	0	Rf Attenuater menu	Enable (1)
	b4	1	1	Fine tuning	Enable (1)
	b5	0	0	Search speed	Slow (1) Fast (0)
	b6	1	1	TEXT FLOF	Reserved
	b7	1	0	TEXT TOP	TOP enable (1)
option9	40	40	40		
0E8	b0	0	0	Dolby	Dolby enable (1)
	b1	0	0	3D Subwoofer	Subwoofer enable(1) Dolby model should be 0.
	b2	0	0	Dolby Virtual	Dolby Virtual enable (1)
	b3	0	0	Amp	with Amp (0) / without Amp (1)
	b4	0	0	Sound Ext. DA	without Sound Ext. DA (0) / with Sound Ext. DA (1)
	b5	0	0	Shopping Sound menu	MUSIC (0) / CINEMA (1)
	b6	1	1	Volume curve	Volume curve1 (0), curve2 (1)
	b7	0	0	L1PSYNC	L1PSYNC enable (1)
option10	80	80	80		
0E9	b0	0	0	OSD language	English Chinese Arabia (0), English Russian (1)
	b1	0	0	ACI all country	not use
	b2	0	0	ACI auto MP	not use
	b3	0	0	ACI offset	not use
	b4	0	0	Blue Back	
	b5	0	0	BC Safety	Reserved
	b6	0	0	Protect XPR	Reserved
	b7	1	1	Protect 5V detect	Protection input enable (1)

Options Model	HQ	HM	X		ASIA	
option11	42	42	42			
0EA	b0	0	0	0	Shop mode	enable (1)
	b1	1	1	1	Picture Shift	enable (1)
	b2	0	0	0	Sub Headphone	enable (1)
	b3	0	0	0	User aspect Just	enable (1)
	b4	0	0	0	User aspect 14:9	enable (1)
	b5	0	0	0	NICAM C4 bit	enable (1)
	b6	1	1	1	ID-1	enable (1)
	b7	0	0	0	1080I	enable (1)
option12	03	01	01	Area Option		
0EB	b0	1	1	1	Asia	Asia (1), europe (0)
	b1	1	0	0	Australia	Australia (1)
	b2	0	0	0	Ireland/India	India (1)
	b3	0	0	0	UK	not use
	b4	0	0	0	MELCOA	MELCOA (1)
	b5	0	0	0	28 inch	28 inch (1) when only Large size=0, Wide=1, PTV=0
	b6	0	0	0	LED	enable (1)
	b7	0	0	0	free	
option13	01	01	01	Temporary		
0EC	b0	1	1	1	GC2V ES2	ES2 (1), BS1 (0)
	b1	0	0	0	UK Tuner IF 38.9	38.9 MHz (0), 39.5 MHz (1)
	b2	0	0	0		
	b3	0	0	0		
	b4	0	0	0		
	b5	0	0	0		
	b6	0	0	0		
	b7	0	0	0		

7. CRT Set Up

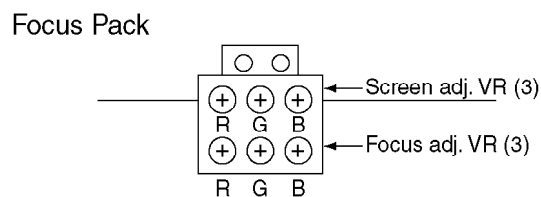
Caution:

Insure yoke plugs on the A-Board are reconnected before turning the Receiver ON to prevent damage to the horizontal output transistor and/or CRTs.

7.1. Dynamic Focus Adjustment

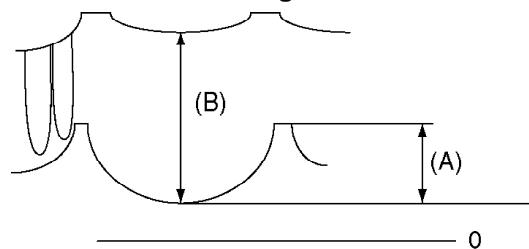
1. Focus adjustments should be performed after 1 hour of aging.
2. Use oscilloscope with 100 : 1 probe.
3. Apply PAL monoscope pattern.
4. Set scan mode to 100Hz.
5. Set the picture menu to Dynamic.
6. Adjust the Red, Blue and Green focus VR on the focus block for best focus of overall picture of each CRT. (**Fig. 2**)

Fig. 2



7. Connect the scope probe to TPD20, GND to TPD21. Scope set at 20V/div & 5m sec./div.
8. Adjust V-PARA (Service mode1) so that waveform (A) is $380V \pm 20V$. (**Fig. 3**)
9. Adjust H-PARA (Service mode1) so that waveform (B) is $560V \pm 40V$. (**Fig. 3**)

Fig. 3



10. Set scan mode to PAL 100V Comp.
11. Set the picture menu to Dynamic.
12. Adjust V-PARA (Service model) so that waveform (A) is $180V \pm 20V$. (**Fig. 3**)
13. Adjust H-PARA (Service model) so that waveform (B) is $560V \pm 20V$. (**Fig. 3**)
14. Set scan mode to Progressive.
15. Repeat step 6-9.

16. Apply NTSC monoscope pattern.
17. Set scan mode to Progressive.
18. Repeat step 6-9.
19. Set scan mode to 100Hz.
20. Repeat step 6-9.
21. Proceed with Focus Adjustments.

7.2. Electrical Focus Adjustment

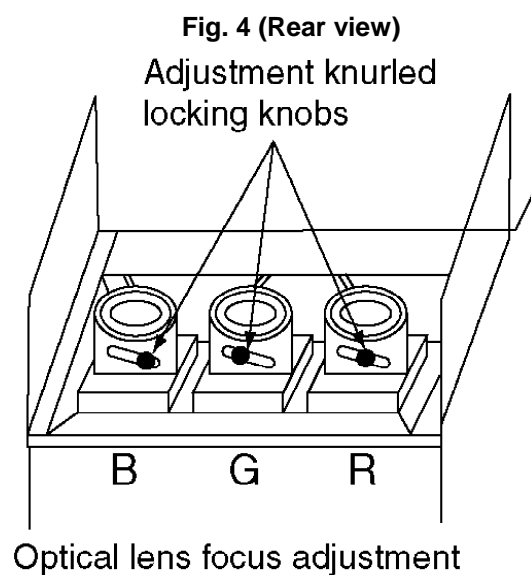
1. Receive a monoscope pattern.
2. Cover the Red and Blue CRT, projecting Green only.
The electrical focus controls are located on the front. Adjust the Green Focus VR for best focus of overall picture. (**Fig. 2**)
3. Repeat for Red focus VR while projecting Red only.
4. Repeat for Blue. (Best focus at bottom left corner of screen)

7.3. Optical Lens Focus Adjustment

Note:

This adjustment normally should not require resetting unless the lens has been replaced or adjustment has changed.

1. Optical focus adjustment is located on the top of each CRT lens system. Loosen the adjustment knurled locking knob. (**Fig. 4**)



2. Turn the Receiver ON apply and view a monoscope pattern.
3. Adjust each lens focus for best focus while viewing each CRT.
4. Cover the Red and Blue CRT, projecting green only. Rotate the Green lens for best focus around screen center area.
5. Do the same for the Red focus lens while projecting Red only.
6. Repeat for Blue.

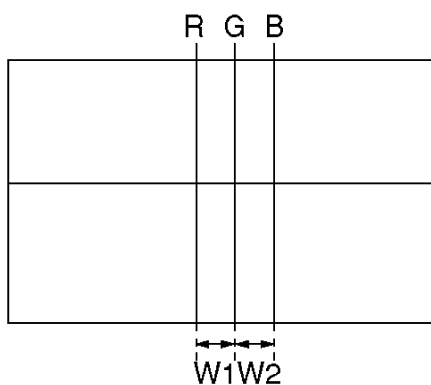
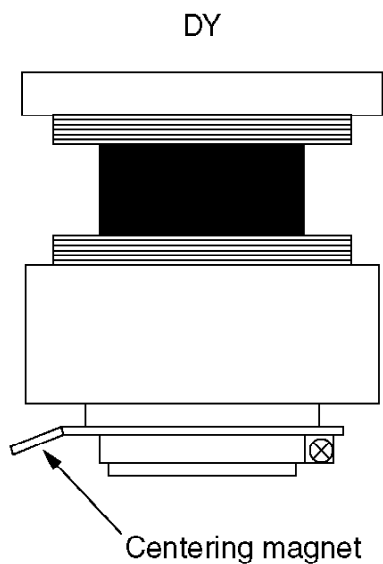
7.4. Centering Magnet Adjustment

1. Receive a monoscope pattern.
2. Set that Fine convergence data (Service mode1) is clear (no correction).
3. Set that V-Pos data (Service mode1) is [130].
4. Set that H-Pos data (Service mode1) is [438].
5. Set that H-Parallel data (Service mode1) is [8].

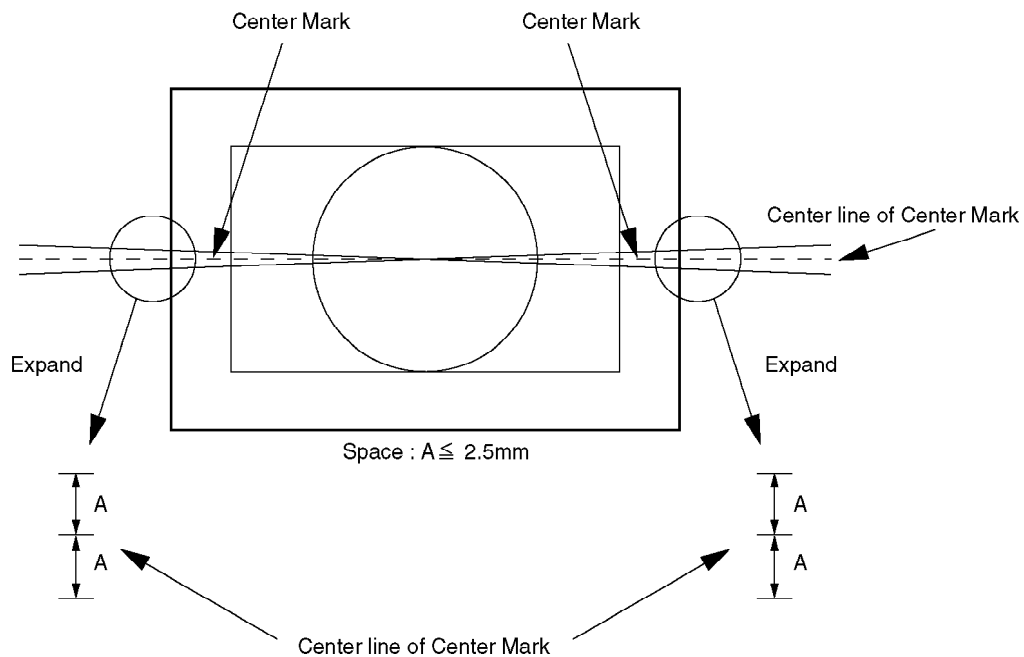
Procedure:

1. Cover the Red, Blue CRT lens, projecting Green only.
2. Adjust green centering magnet (DY) if the projected green horizontal/vertical line does not line up with the screen horizontal/vertical center line.
3. Cover the Green, Red CRT lens, projecting Blue only.
4. Repeat step 2. for blue.
5. Cover the Green, Blue CRT lens, projecting Red only.
6. Repeat step 2. for red.
7. Cover the Red, Blue CRT lens, projecting Green only.
8. Adjust green centering magnets until the center of the monoscope pattern line up with the screen center line.
9. Cover the Green, Red CRT lens, projecting Blue only.
10. Adjust blue centering magnets to position the center of the blue raster W2 away from the center of the green raster.
11. Cover the Green, Blue CRT lens, projecting Red only.

12. Adjust red centering magnets to position the center of the red raster W1 away from the center of the green raster.



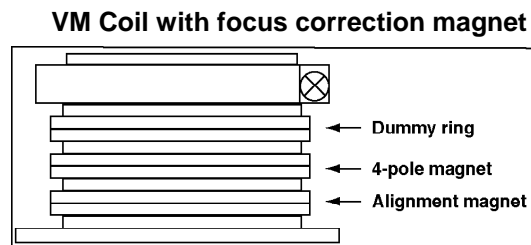
51inch	W1=17.5mm \pm 2.5mm W2=40.0mm \pm 2.5mm
43inch	W1=17.5mm \pm 2.5mm W2=40.0mm \pm 2.5mm



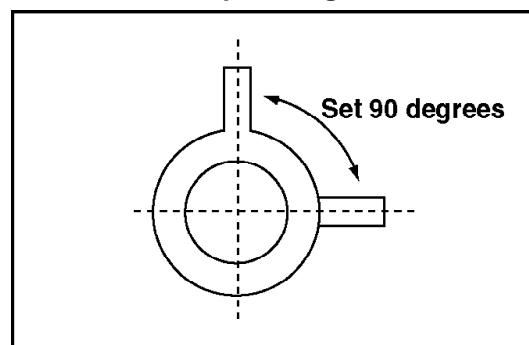
7.5. Alignment magnet Adjustment

Preparation:

1. Receive an cross hatch pattern with dots (pincushion).
2. Loosen the centering magnets screws.
3. Position the longer tab of the four-pole magnet to 90 degrees (uncorrected position).

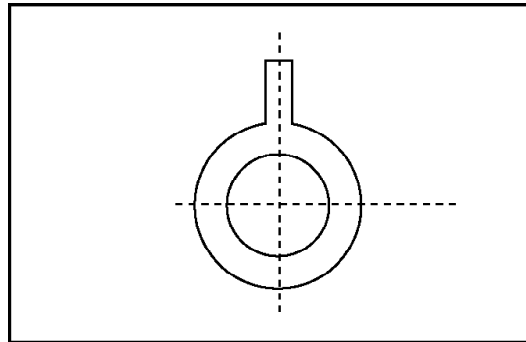


4-pole magnet



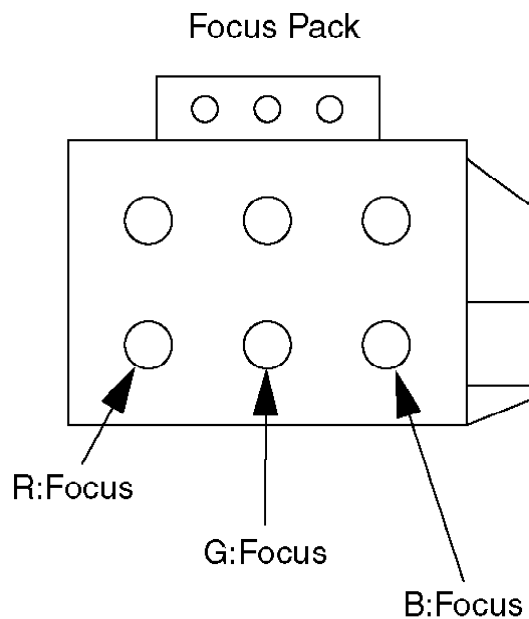
4. Position the long tab of all alignment magnets and of the dummy ring together in an uncorrected position.

Alignment magnet (or dummy ring)

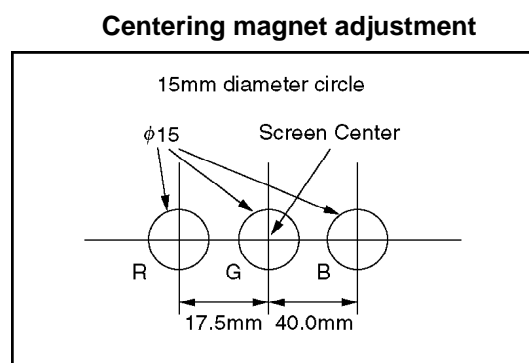


Procedure:

- 1. Receive an cross hatch pattern with dots.**
- 2. Cover the Red, Blue CRT lens, projecting Green only.**
- 3. Turn the green electrical focus adjustment VR (on focus pack) fully counterclockwise and note the position of the dots at the center of the picture.**
- 4. Turn the green electrical focus adjustment VR fully clockwise.**
- 5. Adjust the four pole magnets until the shape of the dot at the center of the screen is circular.**
- 6. Adjust for best green electrical focus with green electrical focus adjustment VR.**
- 7. Cover the Green, Red CRT lens, projecting Blue only.**
- 8. Repeat step 4. ~ step 6. for blue electrical focus.**
- 9. Cover the Green, Blue CRT lens, projecting Red only.**
- 10. Repeat step 4. ~ step 6. for red electrical focus.**



11. Receive an monoscope pattern.
12. Cover the Red, Blue CRT lens, projecting Green only.
13. If the center of the monoscope pattern is not inside the 15mm circle, shown in below, adjust the centering magnets. Repeat the alignment magnet adjustments and four pole magnet adjustments (step 1. ~ step 6.)



14. Cover the Green, Blue CRT lens, projecting Red only.
15. Repeat step 13. for the red.
16. Cover the Green, Red CRT lens, projecting Blue only.
17. Repeat step 13. for the blue.
18. Following adjustments, fix the centering magnets of DY, dummy rings of VM coil, four pole magnets of VM coil and the alignment magnets of VM coil to prevent them from moving.

8. Deflection Adjustment

Caution

1. The following adjustment have to be carried out one with PAL signal (100i/50p) and with NTSC signal (60p/120i) .
2. Deflection adjustment need to set the Coarse/Fine Convergence to Zero Correction some time.
3. Before Deflection Adjustment are attempted, CRT Set up, Electrical Focus and Optical Lens Focus adjustment must be completed.

8.1. PAL 100Hz mode (100i)

8.1.1. Preparation

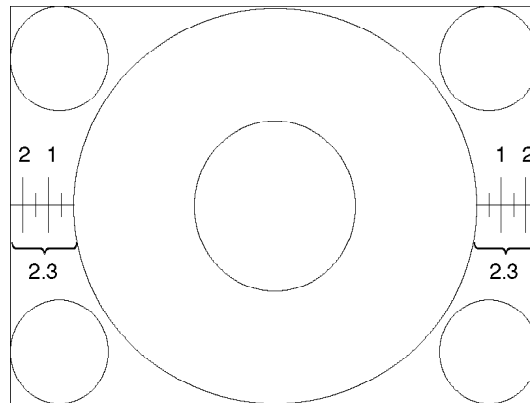
1. Receive PAL monoscope pattern.
2. Set scan mode to 100Hz.
3. Set the Picture Menu to NORMAL.
4. Set the TV to Service Mode 1.
5. Set the Data of Service Mode 1 as follow

H-Pos	438	Top-Corner	170
V-Pos	130	Bottom-Corner	173
H-Parallel	8	V-S-Correct	92
IVBL C	108	C-Correct	6

6. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
7. Push [HELP] button so that projecting Green only.

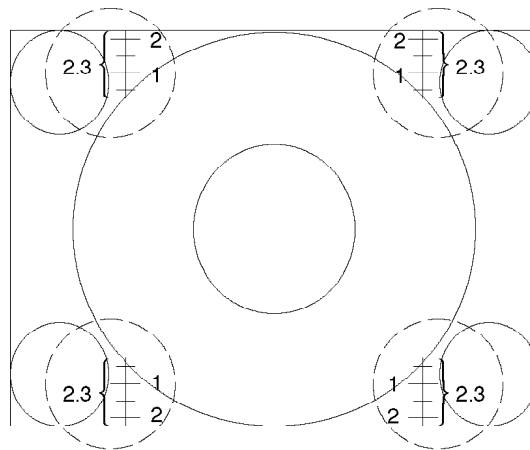
8.1.2. H-Pos and H-Amp Adjustment

1. Adjust Monoscope pattern for center of the screen by H-Pos control.
2. Adjust Horizontal amplitude for 2.3 ± 0.1 division of a scale by H-Amp control.

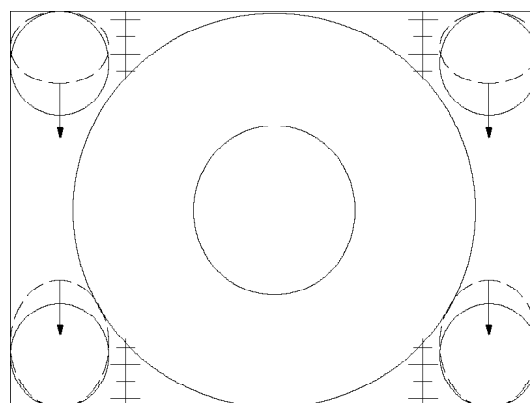


8.1.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.3 ± 0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center , if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

8.1.4. Parabola and Trapezoid Adjustment

1. Receive PAL cross hatch pattern.
2. Adjust the vertical line to straight line by Parabola control.
3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

8.2. PAL 100Hz V Comp mode (100i)

8.2.1. Preparation

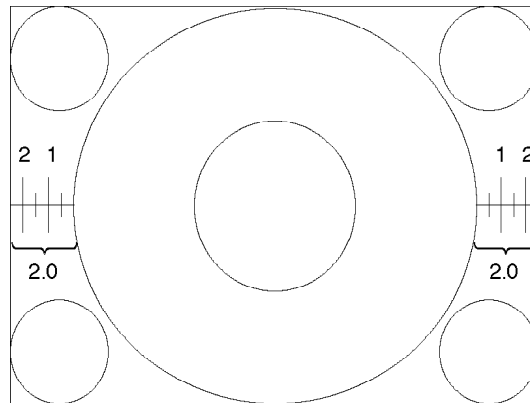
1. Receive PAL monoscope pattern.
2. Set scan mode to 100Hz.
3. Set the Picture Menu to NORMAL.
4. Set the TV to Service Mode 1.
5. Set the Data of Service Mode 1 as follow

H-Pos	438	Top-Corner	168
		Bottom-Corner	173
H-Parallel	8	V-S-Correct	45
IVBL C	45	C-Correct	7

6. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
7. Push [HELP] button so that projecting Green only.

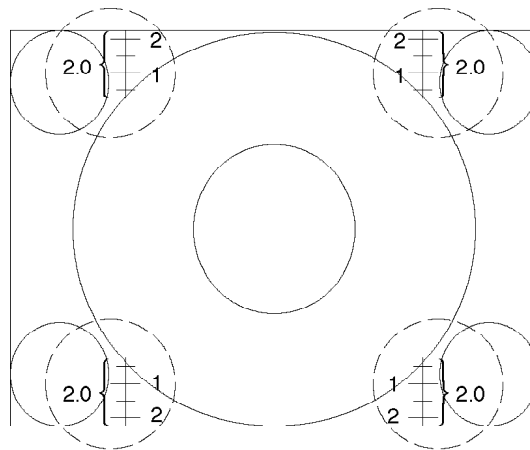
8.2.2. H-Pos and H-Amp Adjustment

1. Adjust Monoscope pattern for center of the screen by H-Pos control.
2. Adjust Horizontal amplitude for 2.0 ± 0.1 division of a scale by H-Amp control.

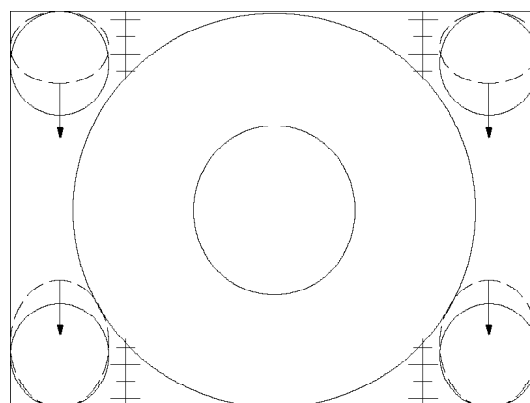


8.2.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.3 ± 0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center , if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

8.2.4. Parabola and Trapezoid Adjustment

1. Receive PAL cross hatch pattern.
2. Adjust the vertical line to straight line by Parabola control.
3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

8.3. PAL Progressive mode (50p)

8.3.1. Preparation

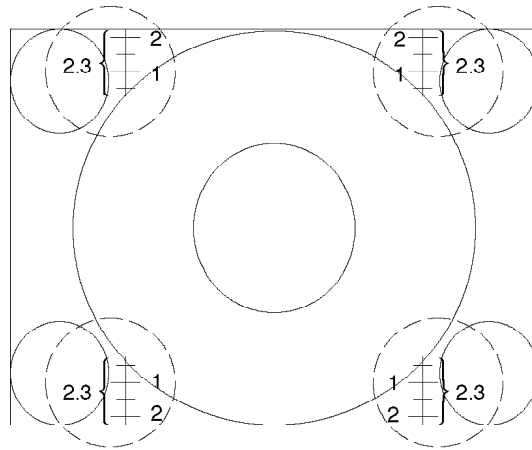
1. Receive PAL monoscope pattern.
2. Copy the Data of PAL 100Hz mode (100i) to PAL Progressive mode (50p)
3. Set scan mode to progressive.
4. Set the Picture Menu to NORMAL.
5. Set the TV to Service Mode 1.
6. Set the Data of Service Mode 1 as follow

H-Parallel	8	Bottom-Corner	173
IVBL C	90	V-S-Correct	90
Top-Corner	173	C-Correct	6

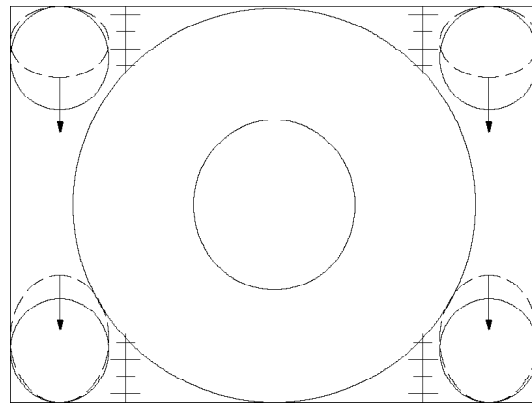
7. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
8. Push [HELP] button so that projecting Green only.

8.3.2. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.3 ± 0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

8.4. NTSC Progressive mode (60p)

8.4.1. Preparation

1. Receive NTSC monoscope pattern.
2. Set scan mode to Progressive.
3. Set the Picture Menu to NORMAL.
4. Set the TV to Service Mode 1.
5. Set the Data of Service Mode 1 as follow

H-Parallel	8	Bottom-Corner	167
IVBL C	95	V-S-Correct	92
Top-Corner	176	C-Correct	6

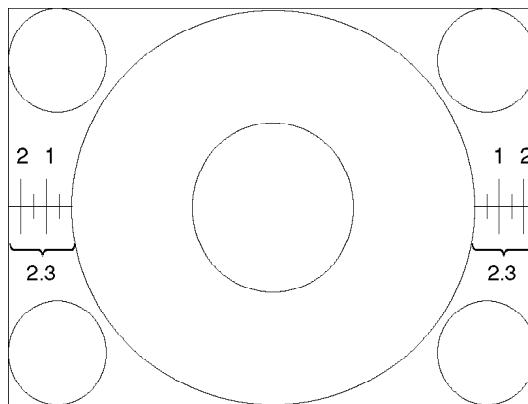
6. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.

7. Push [HELP] button so that projecting Green only.

8.4.2. H-Pos and H-Amp Adjustment

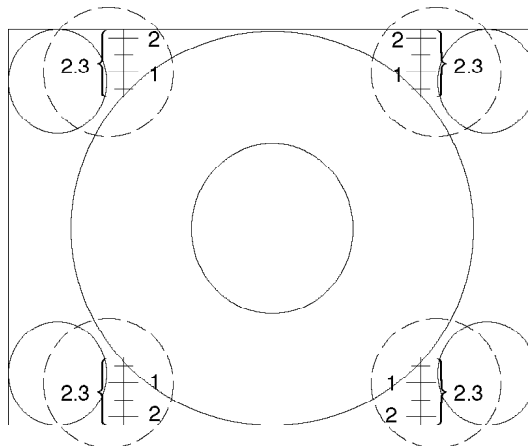
1. Adjust Monoscope pattern for center of the screen by H-Pos control.

2. Adjust Horizontal amplitude for 2.3 ± 0.1 division of a scale by H-Amp control.

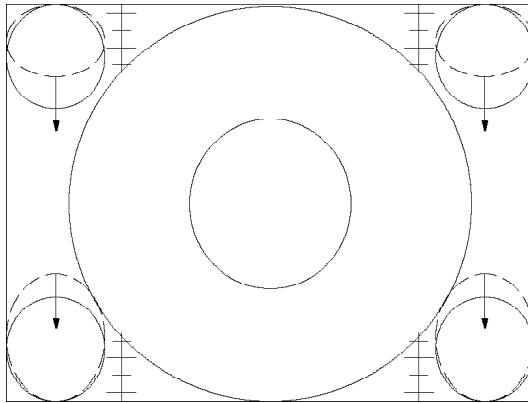


8.4.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.3 ± 0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

8.4.4. Parabola and Trapezoid Adjustment

1. Receive NTSC cross hatch pattern.
2. Adjust the vertical line to straight line by Parabola control.
3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

8.5. 525p Deflection Adjustment / Confirmation

8.5.1. V / H-Deflection confirmation

1. Receive 525p signal.
2. Confirm V / H-Deflection is normal.

8.5.2. H-Pos confirmation / Adjustment

1. Receive 525p signal.
2. Confirm H-Pos and if need, adjust H-Pos.

8.6. 625p Deflection Adjustment / Confirmation

8.6.1. V / H-Deflection confirmation

1. Receive 625p signal.
2. Confirm V / H-Deflection is normal

8.6.2. H-Pos confirmation / Adjustment

1. Receive 625p signal.
2. Confirm H-Pos and if need, adjust H-Pos.

9. Adjustment Procedure

9.1. Cut off Adjustment

Preparation

Picture Menu : Dynamic WB-B-G-ST1 : 255

C Temp : Standard High-RGB : 128

AI : ON Low-RGB : 640

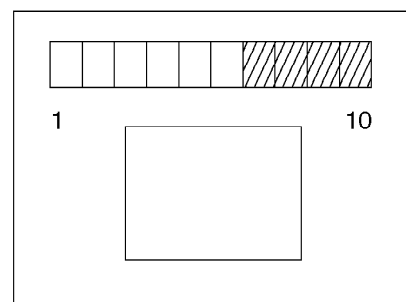
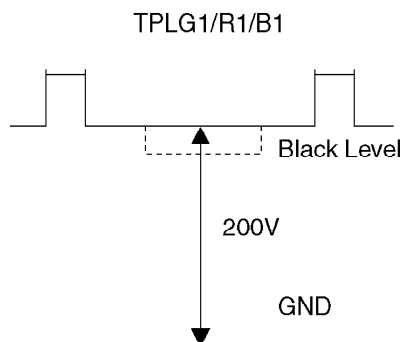
P-NR : AUTO

Scan Mode : 100Hz (PAL) G-Limit : 255

Screen VR : Full Counterclockwise B-Limit : 255

Adjustment

1. Receive a Black Level pattern.
2. Connect an oscilloscope to TPLG1 on LG-Board.
3. Adjust Sub Bright so that the waveform A is $200 \pm 2V$.
4. Connect an oscilloscope to TPLR1 on LR-Board.
5. Adjust Low-R so that the waveform A is $200 \pm 2V$.
6. Connect an oscilloscope to TPLB1 on LB-Board.
7. Adjust Low-B so that the waveform A is $200 \pm 2V$.
8. It pushes and it makes a [HELP] key the project only of GREEN.
9. The 6th paragraph shines faintly with the screen VR of GREEN and the 7th paragraph does to the sinking style.
10. It pushes and it makes a [HELP] key the project only of RED.
11. The 6th paragraph shines faintly with the screen VR of RED and the 7th paragraph does to the sinking style.
12. It pushes and it makes a [HELP] key the project only of BLUE.
13. The 6th paragraph shines faintly with the screen VR of BLUE and the 7th paragraph does to the sinking style.



9.2. Sub Contrast / G-Limit Adjustment

Preparation

Picture Menu : Dynamic WB-B-G-ST1 : 255

C Temp : Standard High-RGB : 128

AI : ON Low-G : 640

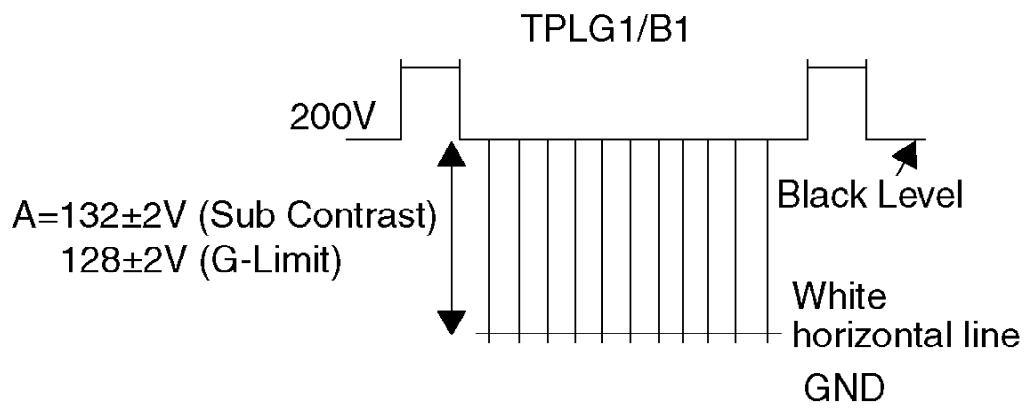
P-NR : AUTO G-Limit : 255

Scan Mode : 100Hz (PAL)

Cut off Adjustment has been adjusted

Adjustment

1. Receive a Cross Hatch pattern.
2. Connect an oscilloscope to TPLG1 on LG-Board.
3. Adjust Sub Contrast so that the waveform A is $132 \pm 2V$.
4. Before G-Limit Adjustment is attempted, Sub Contrast adjustment must be completed.
5. Adjust G-Limit so that the waveform A is $128 \pm 2V$.



9.3. Sub Picture Contrast Adjustment

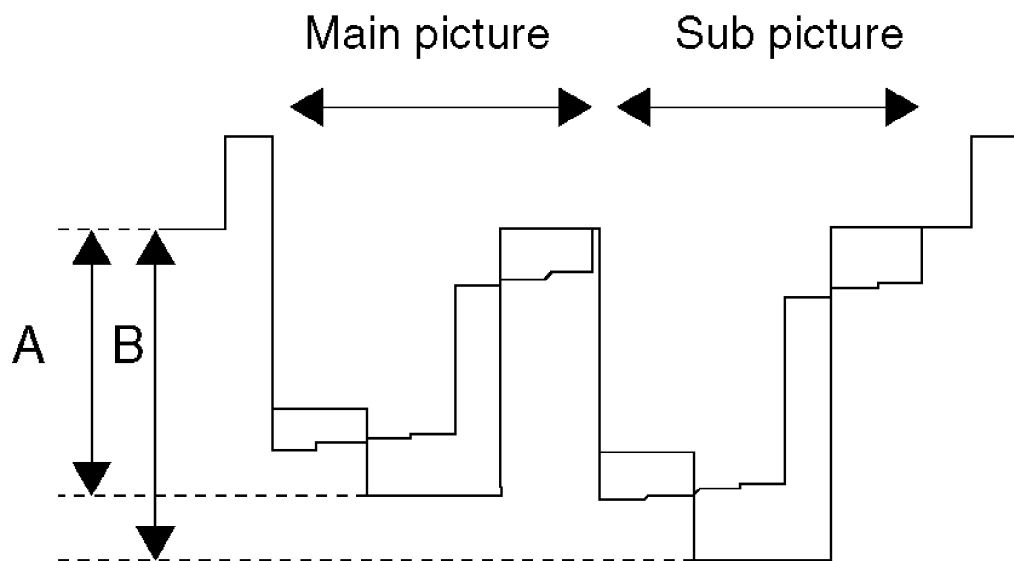
Preparation

Picture Menu : Dynamic

AI : ON

Adjustment

1. Receive a Colour Bar pattern.
2. Connect an oscilloscope to TPLG1 on LG-Board.
3. Increment / Decrement Video gain₂ to adjust Sub-Video level B as same as Main video level A.
4. Write same date on
Video gain TV as Video gain AV.



9.4. NTSC Tint Adjustment

Preparation

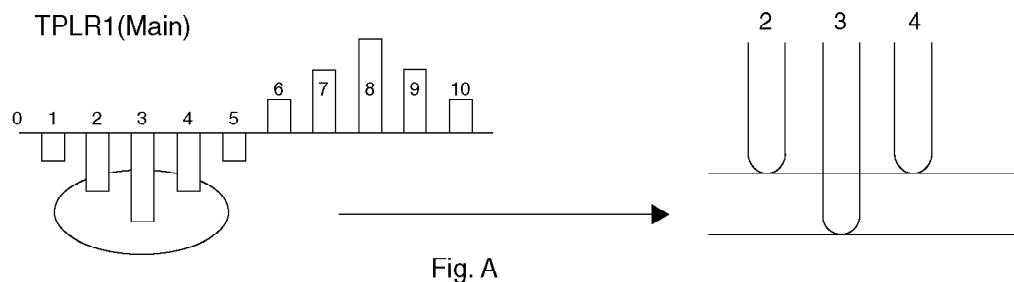
Picture Menu : Dynamic P-NR : AUTO

C Temp : Standard Scan Mode : 100Hz (PAL)

AI : ON

Adjustment

1. Receive a Rainbow (NTSC 3.58Hz) pattern.
2. Connect an oscilloscope to TPLR1 on LR-Board.
3. Adjust Sub NTSC Tint so that the peak of level of waveform is similar to Fig. A.



4. Receive a Rainbow (NTSC 3.58Hz) pattern on both of Main and Sub picture.
5. Adjust Sub NTSC Tint 2 so that the peak of level of waveform is similar to Fig. B.

TPLR1(Sub)

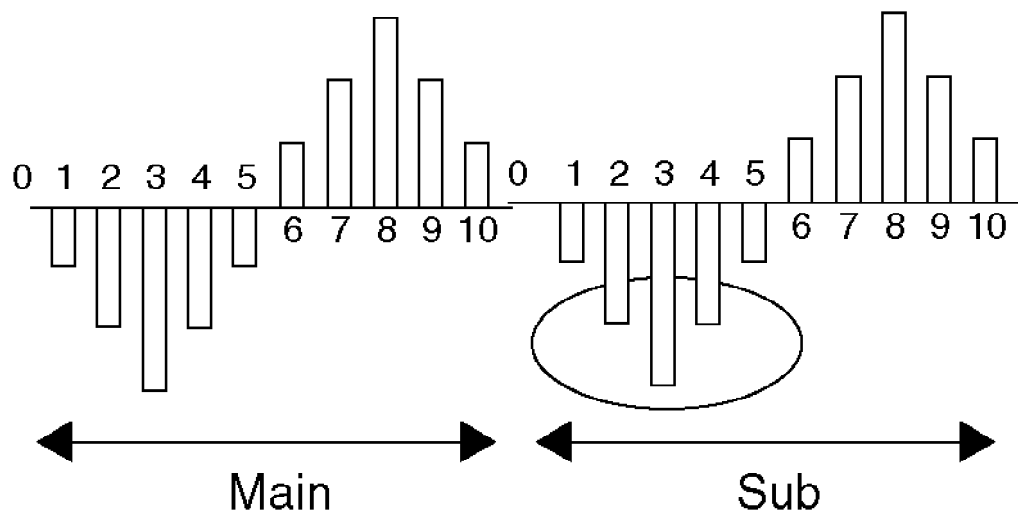


Fig. B

9.5. Sub Color Adjustment

Preparation

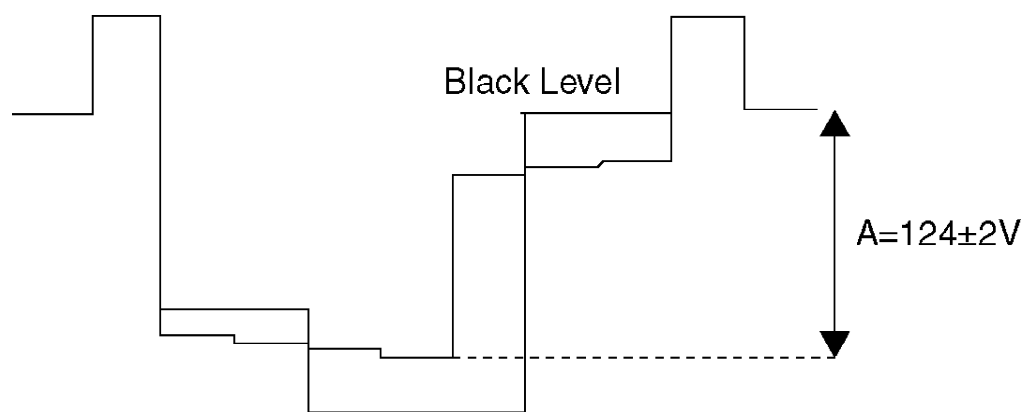
Picture Menu : Dynamic P-NR : AUTO

C Temp : Standard Scan Mode : 100Hz (PAL)

AI : ON ACL : OFF

Adjustment

1. Receive a PAL Colour Bar pattern.
2. Connect an oscilloscope to TPLG1 on LG-Board.
3. Adjust Sub Color so that the waveform A is $124 \pm 2V$.



9.6. Blue Focus / Gamma Adjustment

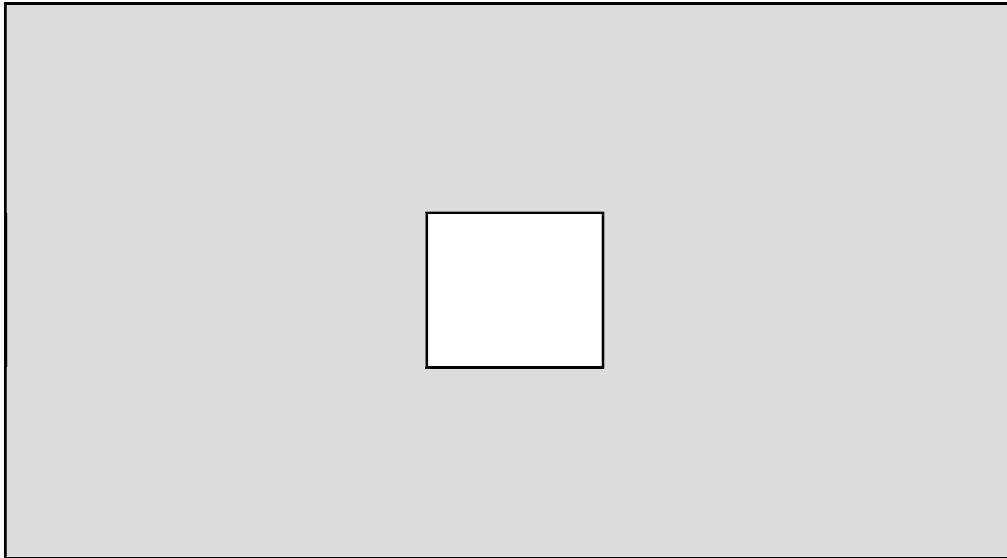
Preparation

Picture Menu : Dynamic WB-B-G-ST1 : 100

C Temp : Standard B-Limit : 255

AI : ON
P-NR : AUTO
Scan Mode : 100Hz (PAL)
Adjustment

1. Set the White Balance Meter on Screen center.
2. Receive a Window pattern.
3. Set the Sub Contrast and High-B to Max.
4. It pushes and it makes a [HELP] key the project only of BLUE.
5. Adjust Blue Focus VR so that Y is $7.0 \pm \text{cd/m}^2$



9.7. White Balance Adjustment

Preparation

Picture Menu : Dynamic Sub Bright :130
C Temp : Standard High R : 100
AI : ON
P-NR : ON High B : 128
Scan Mode : 100Hz (PAL) WB-B-G-ST1 : 170
Low G : 640
Adjustment

1. Set the White Balance Meter on Screen center.
2. Receive a Window pattern.
3. Adjust Sub Bright so that the 6th paragraph shines faintly and the 7th paragraph does to the sinking style.
4. Adjust High R, WB-B-G-ST1, High B, Low R, and Low B to the table value.

51 inch model

Mode	Bright (cd/m ²)	Controle DAC name		Target (x) (y)	C. Temp (K)	MPCD
		RED	BLUE			
Hi	96	High R	WB-B-G-ST1	0.270 ± 0.005	13000 ± 500	-5 ± 5
				0.240 ± 0.005		
Mid	35	---	High B	0.270	11500 ± 500	-20 ± 5
				0.230 ± 0.005		
Low	3	Low R	Low B	0.280 ± 0.008	9200 ± 500	-25 ± 5
				0.240 ± 0.008		

43 inch model

Mode	Bright (cd/m ²)	Controle DAC name		Target (x) (y)	C. Temp (K)	MPCD
		RED	BLUE			
Hi	120	High R	WB-B-G-ST1	0.266 ± 0.005	13000 ± 500	-5 ± 5
				0.246 ± 0.005		
Mid	40	---	High B	0.270	11500 ± 500	-20 ± 5
				0.240 ± 0.005		
Low	3	Low R	Low B	0.280 ± 0.008	9200 ± 500	-25 ± 5
				0.240 ± 0.008		

9.8. Sub Bright Adjustment

Preparation

Picture Menu : Dynamic P-NR : AUTO

C Temp : Dynamic Scan Mode : 100Hz (PAL)

AI : ON

Cut off and White Balance Adjustment has been adjusted
Adjustment

1. Set the White Balance Meter on Screen center.
2. Receive a PAL Window pattern.
3. Adjust Sub Bright so that the 6th paragraph shines faintly and the 7th paragraph does to the sinking style.

9.9. Blue Limit Adjustment

Preparation

Picture Menu : Dynamic

C Temp : Standard

AI : ON

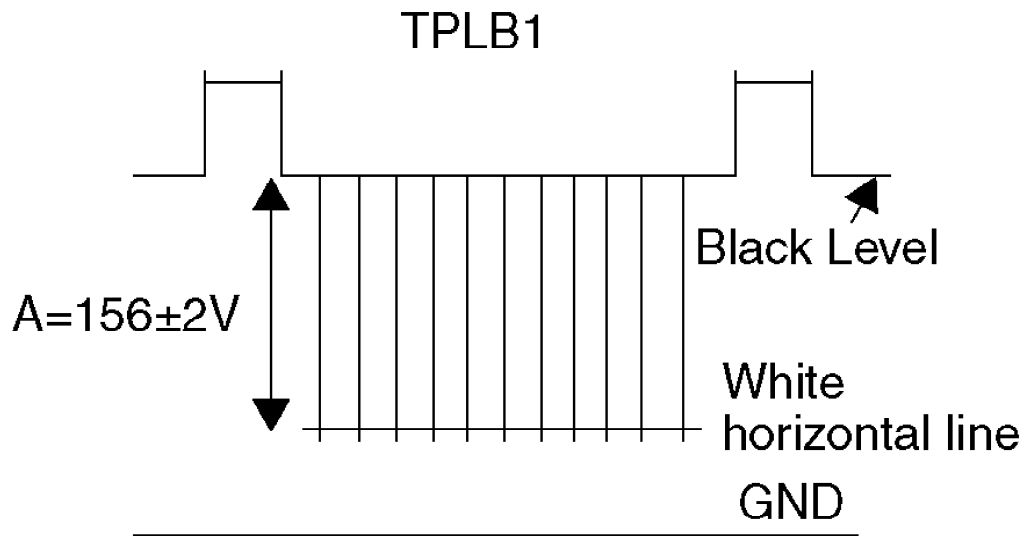
P-NR : ON

Scan Mode : 100Hz (PAL)

White Balance Adjustment has been adjusted
Adjustment

1. Receive a Cross Hatch pattern.

2. Connect an oscilloscope to TPLB1 on LB-Board.
3. Adjust B-LIMIT so that the waveform A is $156 \pm 2V$.



10. Convergence Adjustment

The convergence adjustment is set separately for each 50/100Hz/ 60/100Hz input (NTSC, PAL/ SECAM). The following explanation uses the PAL mode as an example, since the same procedure applies to the convergence adjustment for NTSC mode.

When replacing the following Parts.

IC7301 (EEP-ROM in A-Board) L551 (Pincushion Coil) High Voltage Producing Parts Other Parts
(If change the convergence)

Create an Adjustment Sheet by tracing the following specifications in their actual size on transparent film or tracing paper. Then adjust the convergence.

When replacing one of the CRT's.

Adjust the convergence for each of the 50/100Hz and 60/120Hz inputs so that they are aligned with the other colours.

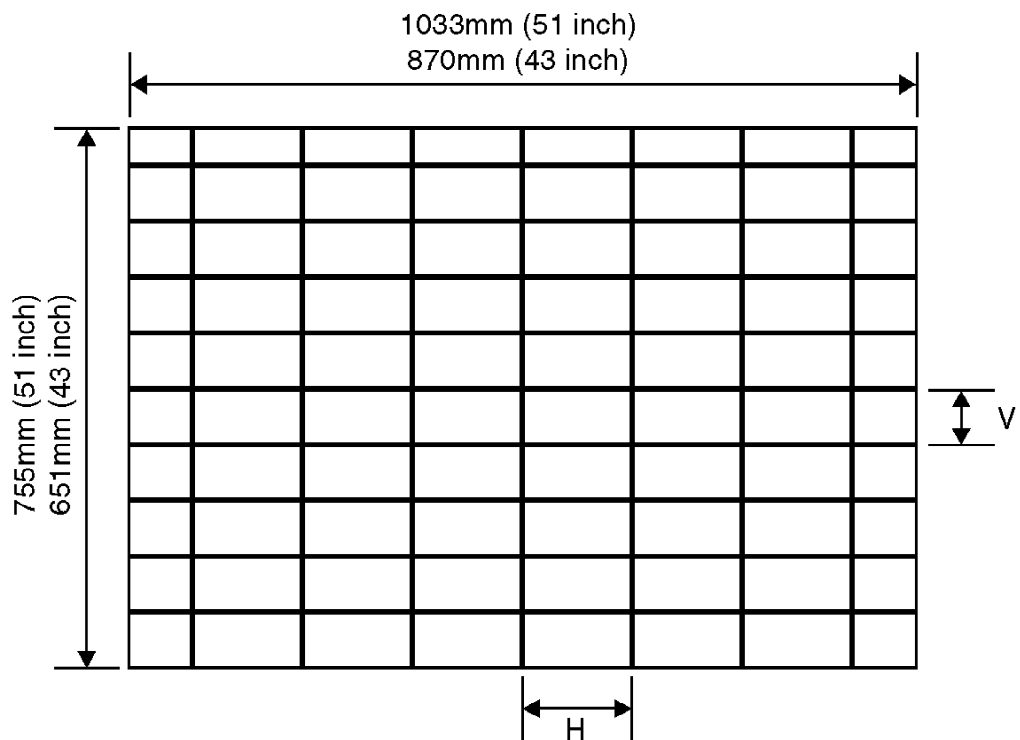
Helpful Hint

All positions which have been adjusted are recorded within P-2 for NTSC data and P-3 for PAL data of the memory. This data can be copied to P-4 memory area, allowing you to perform the adjustment of P-2 (NTSC) and P-3 (PAL). To perform these adjustments, push the SEARCH

button on the remote control, and manipulate the position [▲] and [▼] button and the "N" button as instructed by the On Screen Display in Fine Convergence adjustment.

All of the Convergence Control Charts have been listed for the remote control buttons after the Convergence Adjustment Procedure. Please refer to these. (Page 29)

10.1. Convergence Adjustment Sheet



51inch

信号	メッシュピッチ(mm)	
	H	V
PAL 100	176.5	100.0
PAL V.Comp	176.5	51.5
PAL Progressive	176.5	100.0
NTSC Progressive	170.5	102.5

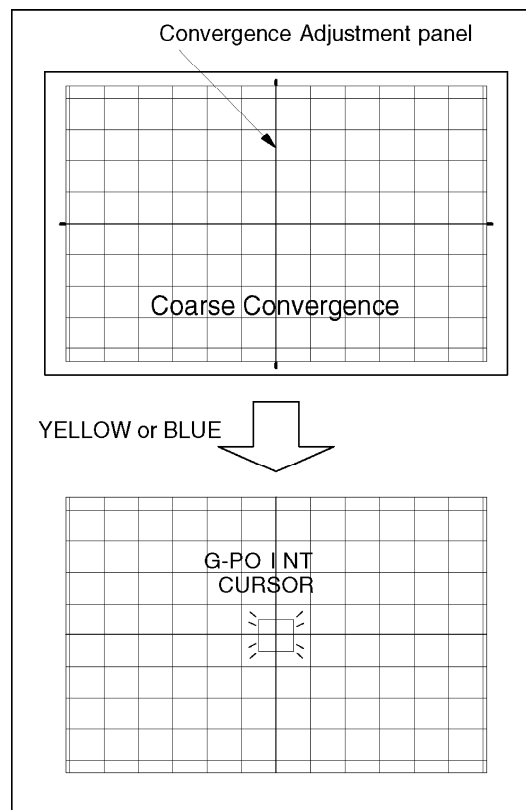
43inch

信号	メッシュピッチ(mm)	
	H	V
PAL 100	149.0	84.5
PAL V.Comp	149.0	43.5
PAL Progressive	149.0	84.5
NTSC Progressive	143.5	86.5

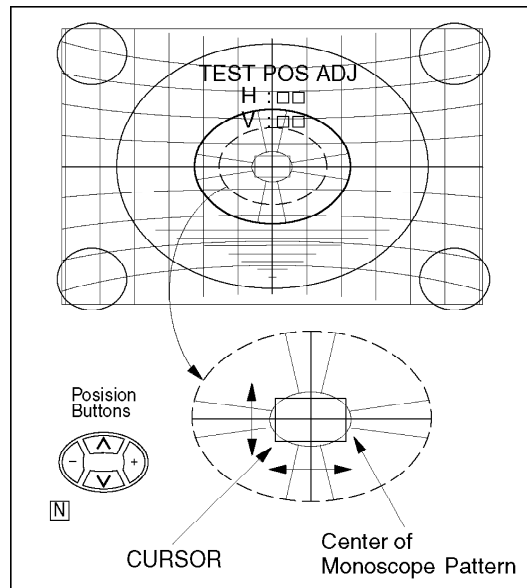
10.2. Convergence Adjustment Procedure

1. Input a monoscope pattern of PAL.
2. Enter the Service Mode1.
3. Select the Coarse Convergence by pushing "RED" or "GREEN" buttons. Then push "YELLOW" button, and push Position and [N] buttons to set the data to zero.
4. Stick the Convergence Adjustment Sheet (PAL 50Hz) onto the screen.
5. Push the "YELLOW" or "BLUE" on the remote control, and enter

the Coarse Convergence Adjustment mode.



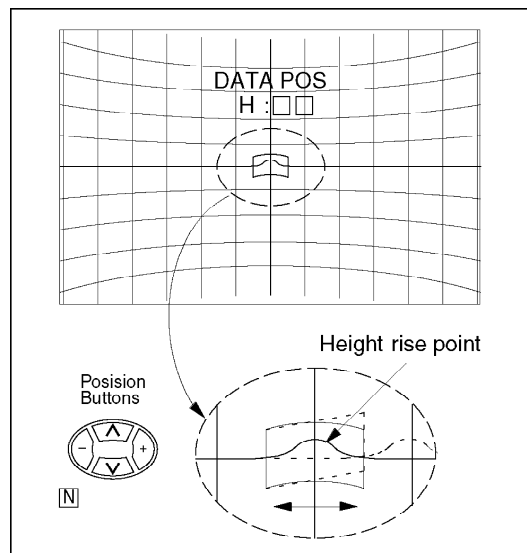
- 6. Push the "0" of 10 key buttons, and then push the "N" of position buttons on the remote control.**
- 7. Enter to "TEST POS." mode.**
- 8. Push the "5" button to display the monoscope pattern on the screen.**
- 9. Adjust the position buttons so that the cursor in the center of the test pattern is aligned with the center of the monoscope pattern.**



10. Push the "TV/AV" button on the remote control, and enter the "DATA POS." mode.

11. Push the "5" button and close the background image (monoscope pattern).

12. Use the "+" and "-" of the position buttons so that the bump in the screen center line is at the center of the cursor.



13. Push the "TV/AV" button twice, and enter the "OSD POS" mode.

14. Adjust the position buttons so that the cross-cursor is aligned near cross-bar.

15. Push the "SET UP" button, and "N" button to store data.

16. Push the "0" of 10 key buttons, and return to Coarse Convergence Adjustment mode.

10.3. Coarse Convergence Adjustment mode

MODE	SAMPLE DATA	DAC DATA UP	DAC DATA DOWN	MODE	SAMPLE DATA	DAC DATA UP	DAC DATA DOWN
1	STATIC	R 123		3	LINEARITY	R -107	
		G 10				G 88	
		B -229				B 319	
	V	R -8		4	KEystone	R 102	
		G -5				G 32	
		B -8				B -111	
2	SIZE	R -69		5	PIN	R 61	
		G -38				G 48	
		B -93				B 53	
		R -5				R 227	
		G -6				G 268	
		B -15				B 258	
	SKEW	R -14		6	CORNER	R +31	
		G -5				G -19	
		B -10				B -69	
		R 0					
		G 0					
		B -2					

10.3.1. Green Coarse Convergence Adjustment

10.3.1.1. Reparation

Push the "SOUND" button, and select the Green Adjustment mode. Push the "2" button, and select the "Border and Cross" pattern. Push the "MUTE" button, and select the "Green" colour.

10.3.1.2. "G-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "G-SIZE (V)". Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame.

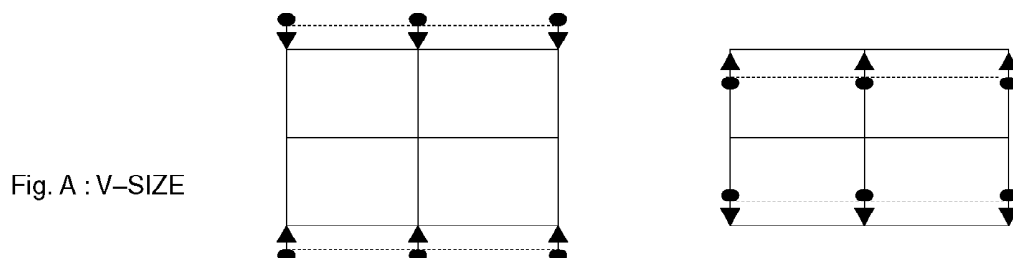


Fig. A : V-SIZE

10.3.1.3. "G-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "G-SIZE (H)". Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame.

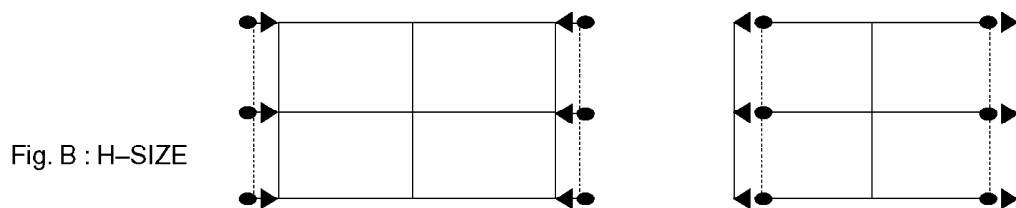


Fig. B : H-SIZE

10.3.1.4. "G-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "G-LINEAR". Push the "Volume up/down" buttons, and adjust the "G-LINEAR" to become the following figure.

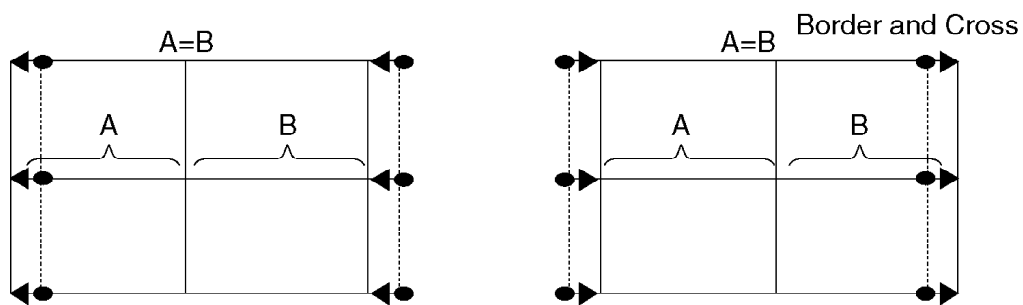


Fig.C : LINEAR

10.3.1.5. "G-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "G-PIN". Push the "Channel up/down" buttons, and adjust the "G-PIN (V)" to become the following figure.

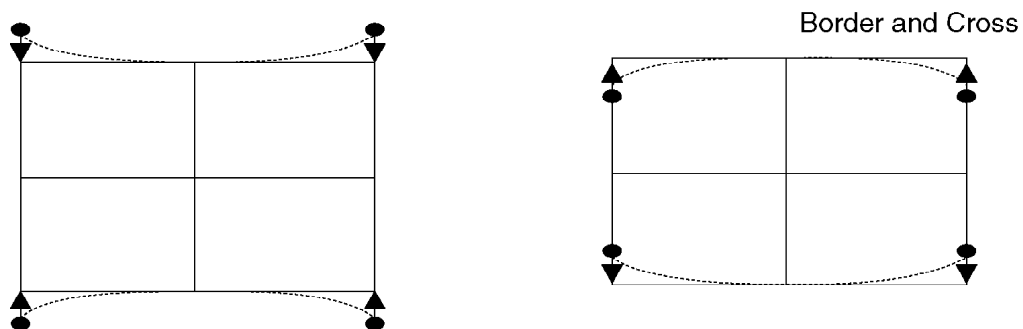


Fig.D : V-PIN

10.3.1.6. "G-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "G-PIN". Push the "Volume up/down" buttons, and adjust the "G-PIN (H)" to become the following figure.

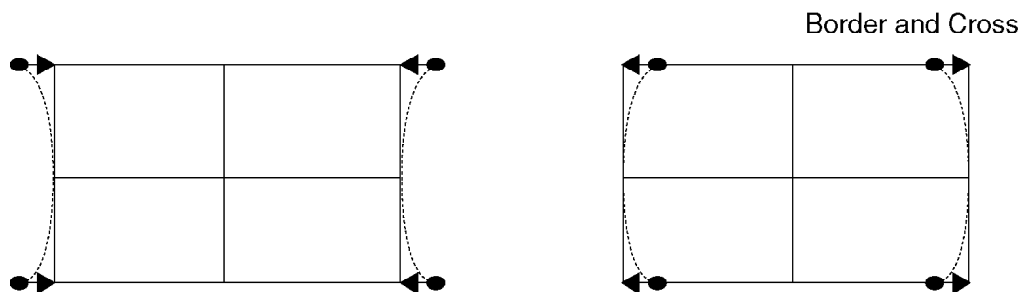


Fig.E : H-PIN

10.3.1.7. "G-CORNER" adjustment

Push the "TV/AV" buttons, and select the "G-CORNER". Push the "Volume up/down" buttons, and adjust the "G-CORNER" to become the following figure.

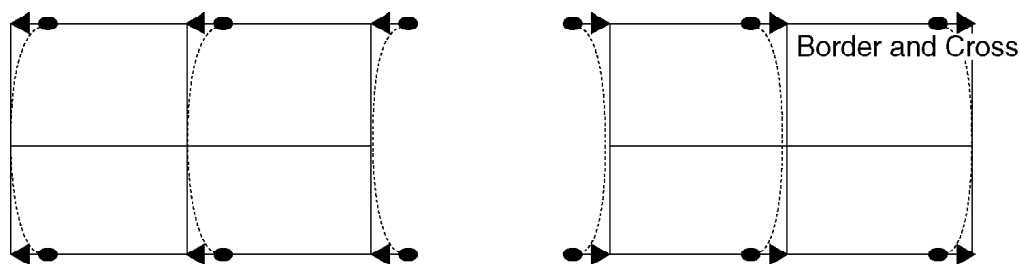


Fig.F : CORNER

10.3.1.8. "G-KEY" adjustment

Push the "TV/AV" buttons, and select the "G-KEY". Push the "Channel up/down" buttons, and adjust the "G-KEY" refer to following figure.

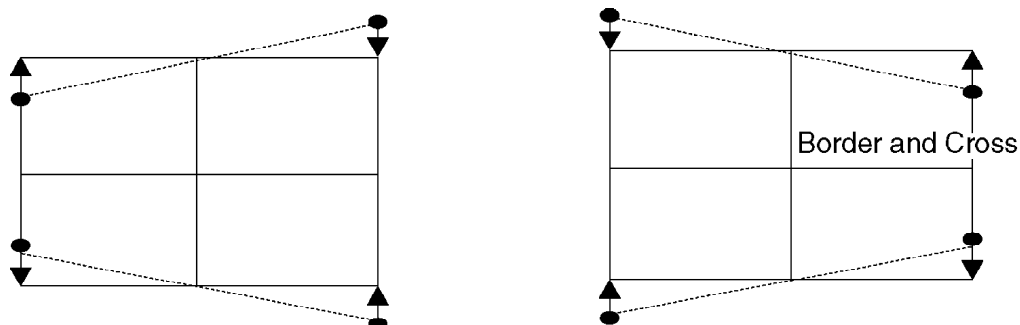


Fig.G : KEY

10.3.1.9. "G-STATIC" adjustment

Push the "TV/AV" buttons, and select the "G-STATIC". Push the "Channel/Volume up/down" buttons, and adjust "G-STATIC" so that Horizontal & Vertical center line is aligned with the bump in the screen center mark.

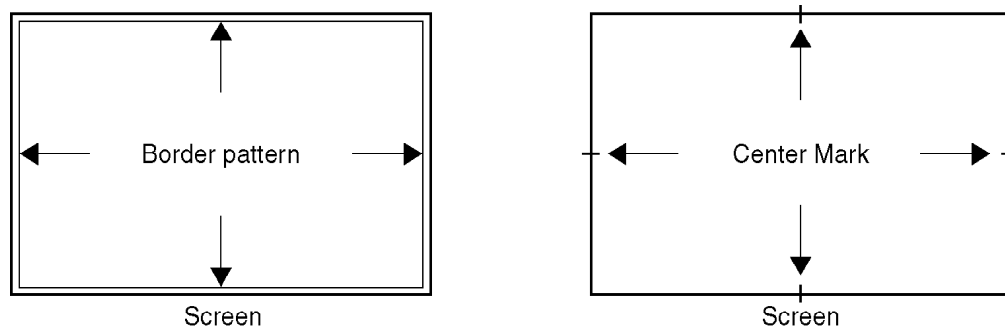


Fig.H STATIC

10.3.2. Red Coarse Convergence Adjustment

10.3.2.1. Reparation

Push the "SOUND" button, and select the Red Adjustment mode. Push the "2" button, and select the "Border and Cross" pattern. Push the "MUTE" button, and select the "Yellow" colour. Push the "POSITION" button, and adjust the "R-STATIC" so that the Red color of pattern is aligned with Green colour of pattern.

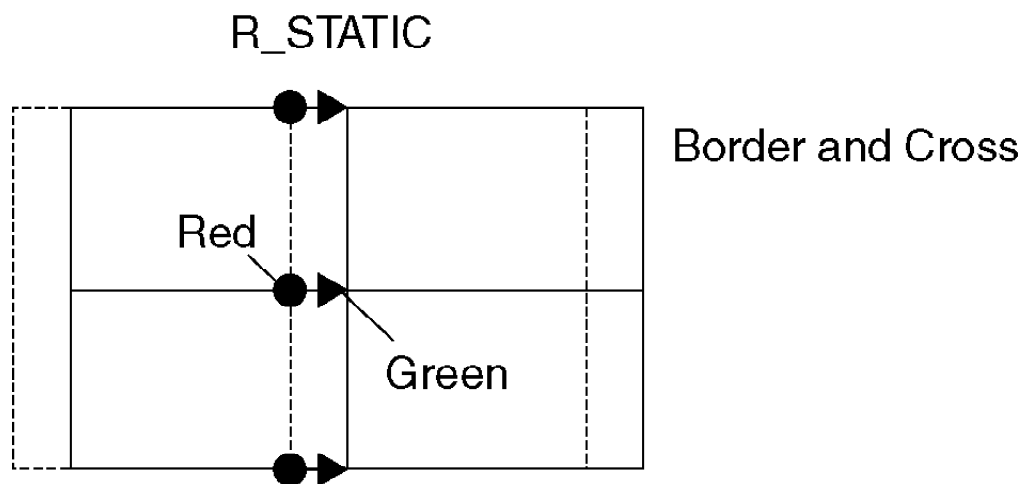


Fig.I : R-STATIC

10.3.2.2. "R-SKEW (V)" adjustment

Push the "TV/AV" buttons, and select the "R-SKEW". Push the "Volume up/down" buttons, and adjust the reference line become a vertical line. (Refer to figure.)

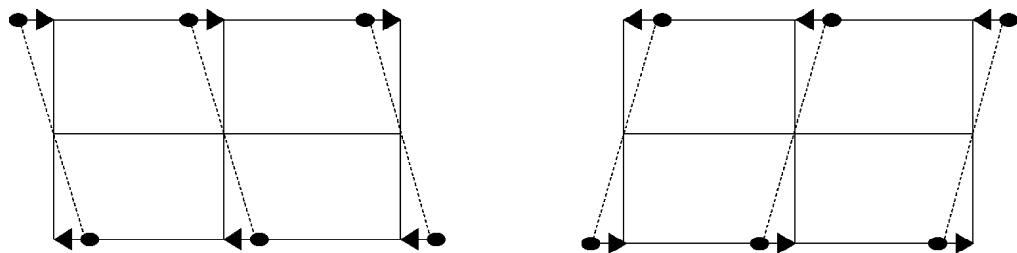


Fig.J : SKEW(V)

10.3.2.3. "R-SKEW (H)" adjustment

Push the "TV/AV" buttons, and select the "R-SKEW". Push the "Channel up/down" buttons, and adjust reference line become a horizontal line. (Refer to figure.)

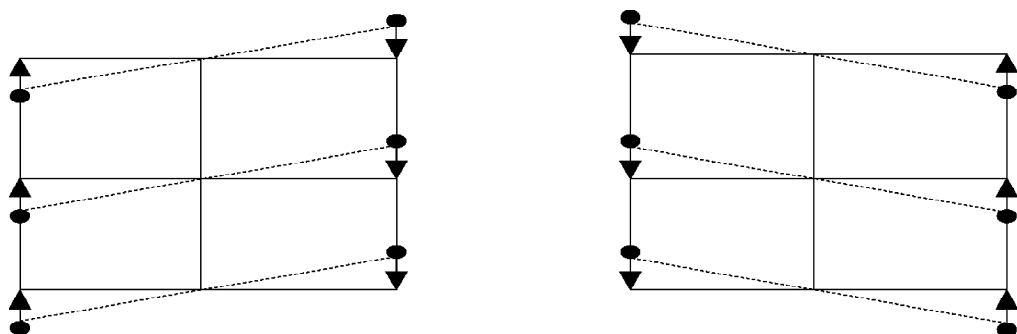


Fig.K : SKEW(H)

10.3.2.4. "R-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "R-SIZE". Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame. (Refer to Fig. A.)

10.3.2.5. "R-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "R-SIZE". Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame. (Refer to Fig. B.)

10.3.2.6. "R-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "R-LINEAR". Push the "Volume up/down" buttons, and adjust the "R-LINEAR". (Refer to Fig. C.)

10.3.2.7. "R-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "R-PIN". Push the "Channel up/down" buttons, and adjust the "R-PIN (V)". (Refer to Fig. D.)

10.3.2.8. "R-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "R-PIN". Push the "Volume up/down" buttons, and adjust the "R-PIN (H)". (Refer to Fig. E.)

10.3.2.9. "R-CORNER" adjustment

Push the "TV/AV" buttons, and select the "R-CORNER". Push the "Channel up/down" buttons, and adjust the "R-CORNER". (Refer to Fig. F.)

10.3.2.10. "R-KEY" adjustment

Push the "TV/AV" buttons, and select the "R-KEY". Push the "Channel up/down" buttons, and adjust the "R-KEY". (Refer to Fig. G.)

10.3.2.11. "R-STATIC" adjustment

Push the "TV/AV" buttons, and select the "R-STATIC". Push the "Channel/Volume up/down" buttons, and adjust "R-STATIC" so that Horizontal & Vertical Center line is aligned with the bump in the screen center mark. (Refer to Fig. H.)

10.3.3. Blue Coarse Convergence Adjustment

10.3.3.1. Reparation

Push the "SOUND" button, and select the Blue Adjustment mode. Push the "2" button, and select the "Border and Cross" pattern. Push the "MUTE" button, and select the "Cyan" colour. Push the "POSITION" button, and adjust the "B-STATIC" so that the Bluecolor of pattern is aligned with Green colour of pattern.

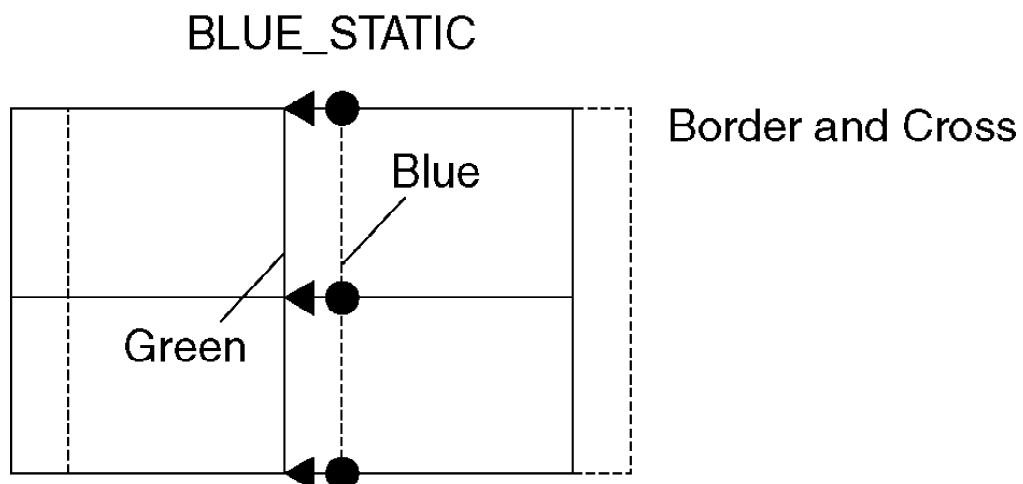


Fig.L : B-STATIC

10.3.3.2. "B-SKEW (V)" adjustment

Push the "TV/AV" buttons, and select the "B-SKEW". Push the "Volume up/down" buttons, and adjust the reference line become a vertical line. (Refer to Fig. J.)

10.3.3.3. "B-SKEW (H)" adjustment

Push the "TV/AV" buttons, and select the "B-SKEW". Push the "Channel up/down" buttons, and adjust reference line become a horizontal line. (Refer to Fig.K.)

10.3.3.4. "B-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "B-SIZE". Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame. (Refer to Fig. A.)

10.3.3.5. "B-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "B-SIZE". Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame. (Refer to Fig. B.)

10.3.3.6. "B-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "B-LINEAR". Push the "Volume up/down" buttons, and adjust the "B-LINEAR". (Refer to Fig. C.)

10.3.3.7. "B-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "B-PIN". Push the "Channel up/down" buttons, and adjust the "B-PIN (V)". (Refer to Fig. D.)

10.3.3.8. "B-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "B-PIN". Push the "Volume up/down" buttons, and adjust the "B-PIN (H)". (Refer to Fig. E.)

10.3.3.9. "B-CORNER" adjustment

Push the "TV/AV" buttons, and select the "B-CORNER". Push the "Channel up/down" buttons, and adjust the "B-CORNER". (Refer to Fig. F.)

10.3.3.10. "B-KEY" adjustment

Push the "TV/AV" buttons, and select the "B-KEY". Push the "Channel up/down" buttons, and adjust the "B-KEY". (Refer to Fig. G.)

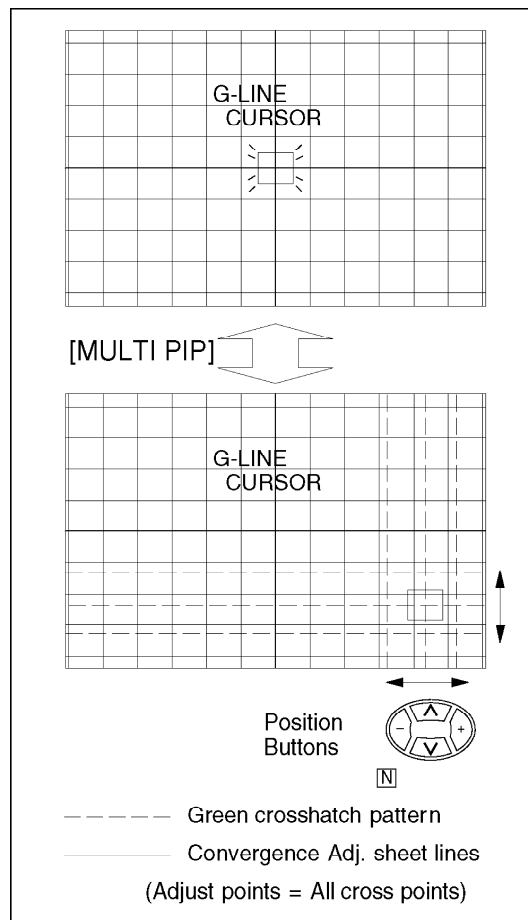
10.3.3.11. "B-STATIC" adjustment

Push the "TV/AV" buttons, and select the "B-STATIC". Push the "Channel/Volume up/down" buttons, and adjust "B-STATIC" so that Horizontal & Vertical Center line is aligned with the bump in the screen center mark. (Refer to Fig. H.)

10.4. Fine Convergence Adjustment

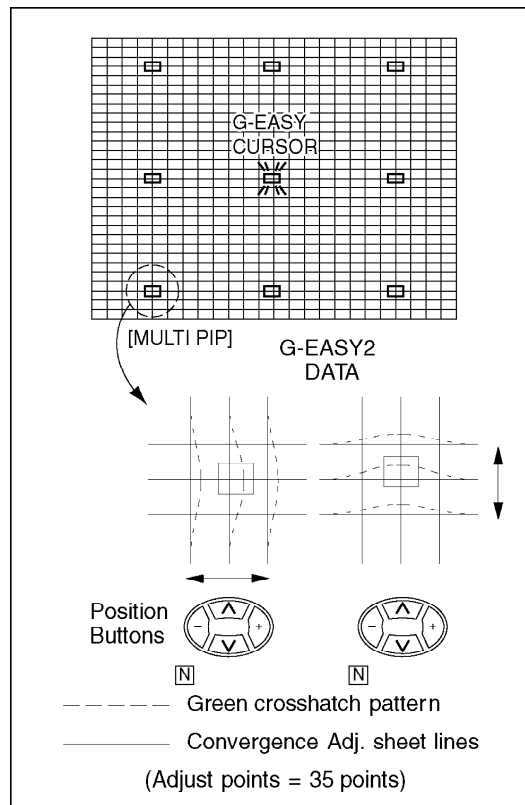
10.4.1. Green Convergence Adjustment

- 1. Select the "G-LINE CURSOR" mode by pushing "TV/AV" button on the remote control**

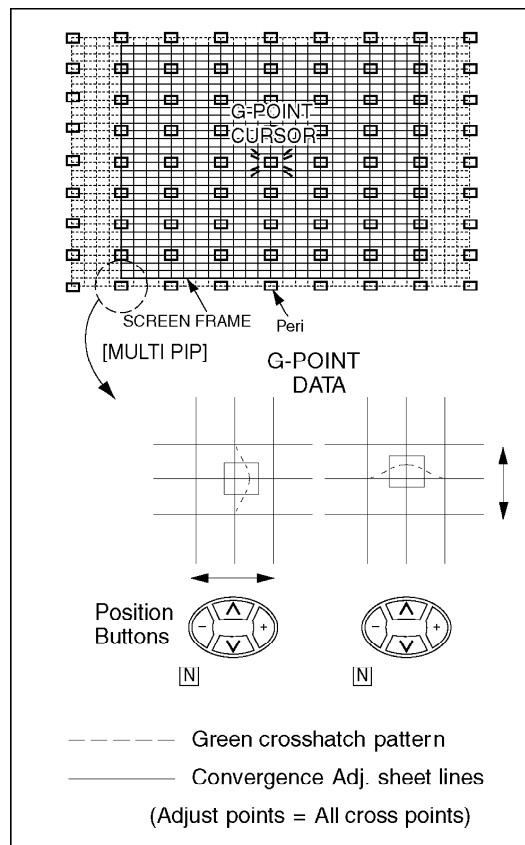


2. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment lines). Then use the "MULTI PIP" to change from "G-LINE CURSOR" to "G-LINE DATA".
3. Use the Position Buttons to adjust each point (line) so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
4. Push the "MULTI PIP" and switch from "G-LINE DATA" to "G-LINE CURSOR".
5. Repeat step 2~4 to adjust the vertical lines (13) and the horizontal lines (9).
6. Select the "G-EASY CURSOR" mode by pushing "TV/AV" button on the remote control.
7. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment point). Then use the "MULTI PIP" to change from "G-EASY CURSOR" to "G-EASY DATA".

8. Use the Position Buttons to adjust each point so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
9. Push the "MULTI PIP" and with from "G-EASY DATA" to "G-EASY CURSOR".
10. Repeat step 7~9 to adjust the 9 adjustment points.



11. Select the "G-POINT CURSOR" mode by pushing "TV/AV" button on the remote control.
12. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment lines). Then use the "MULTI PIP" to change from "G-LINE CURSOR" to "G-LINE DATA".
13. Use the Position Buttons to adjust each point so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
14. Push the "MULTI PIP" and switch from "G-POINT DATA" to "G-POINT CURSOR".
15. Repeat step 12-14 to adjust all of adjustment points.



16. Adjust the LINE, EASY and POINT DATA again viewing all over the screen.

If need the adjustment at the around of screen, select the "ORIGINAL" and adjust it.

17. To store the data after the Green Convergence Adjustment has been completed, push the "MAIN MENU" button and then push the "N" button (pushing the "N" button will store the data in the E₂ PROM).

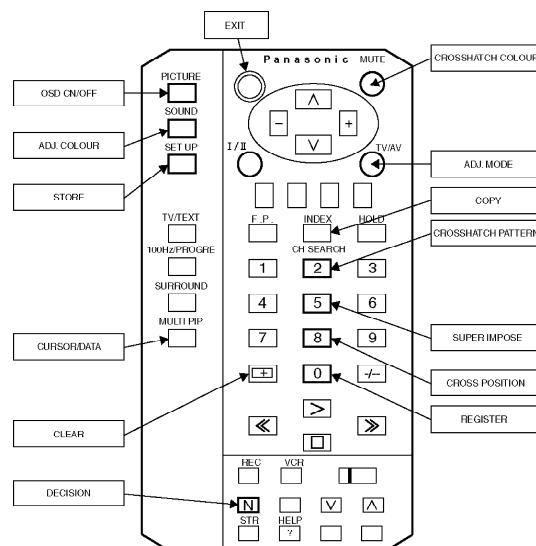
18. Remove the Convergence Adjustment Sheet from the screen.

10.4.2. Red Convergence Adjustment

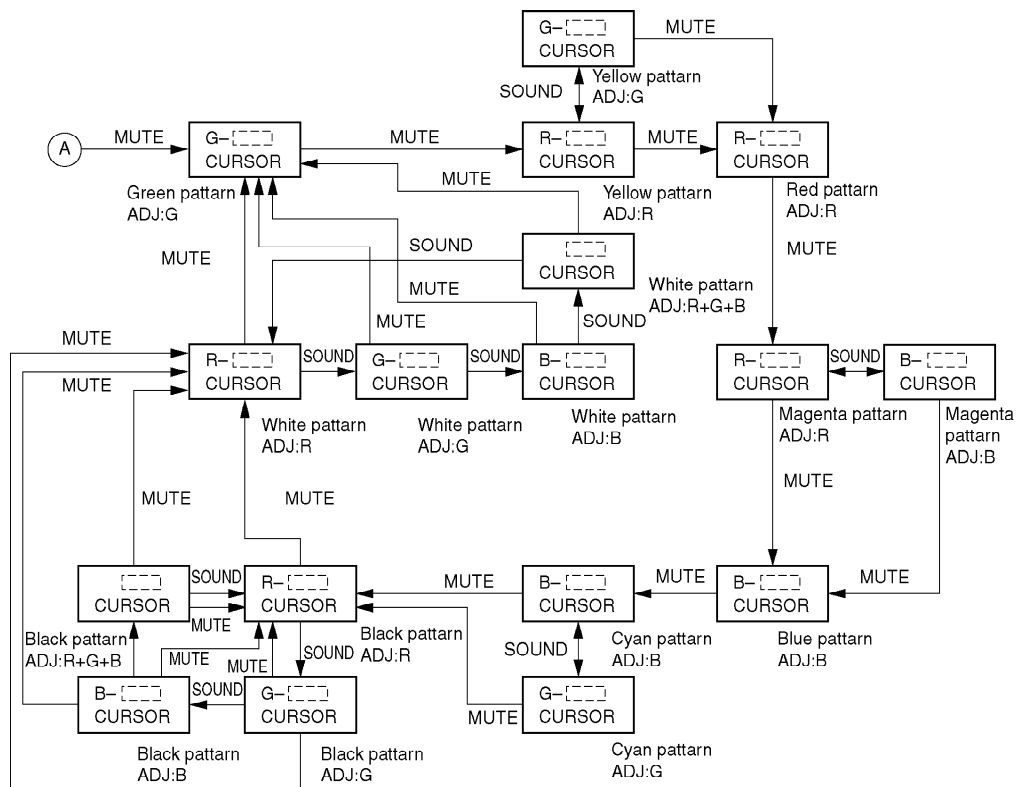
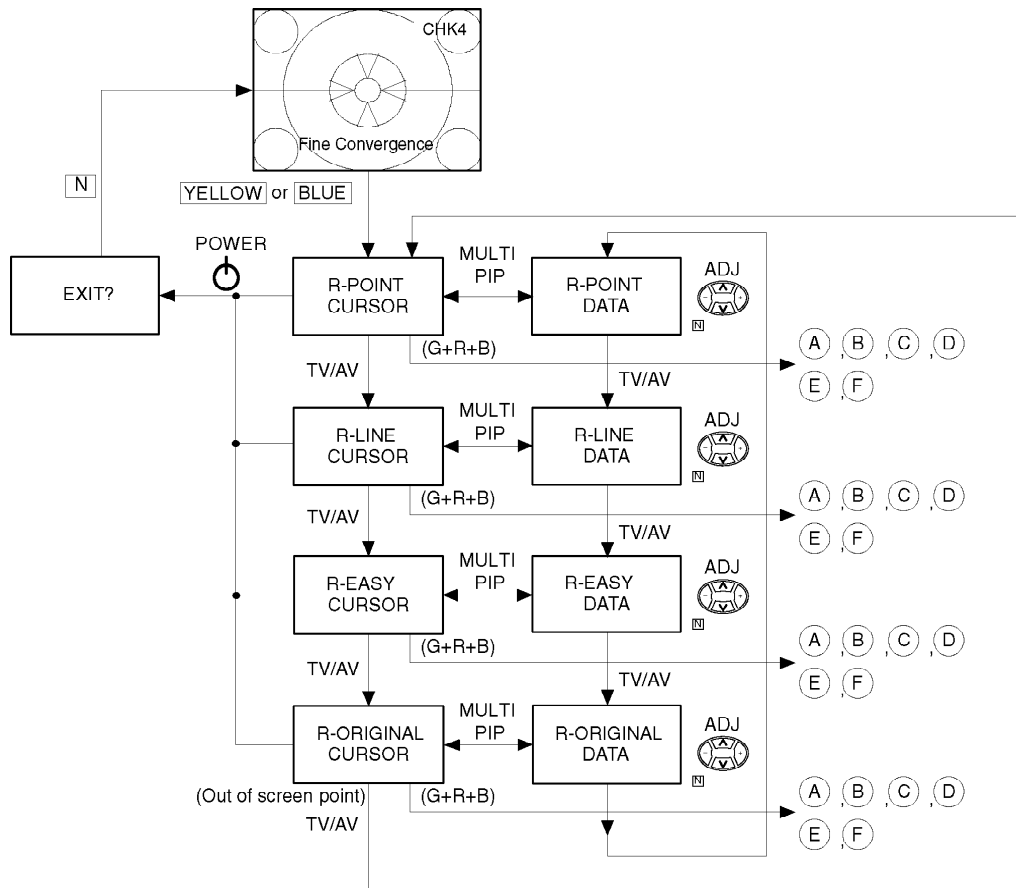
- 1. Push the "MUTE" button twice and change to the Red Adjustment of Yellow Colour.**
- 2. Repeat the same steps described for the Green Conv.Adj. in 1~16 to perform the Red Convergence Adjustment.**
- 3. To store the data after the Red Convergence Adjustment has been completed, push the "MAIN MENU" button and then the "N" button.**

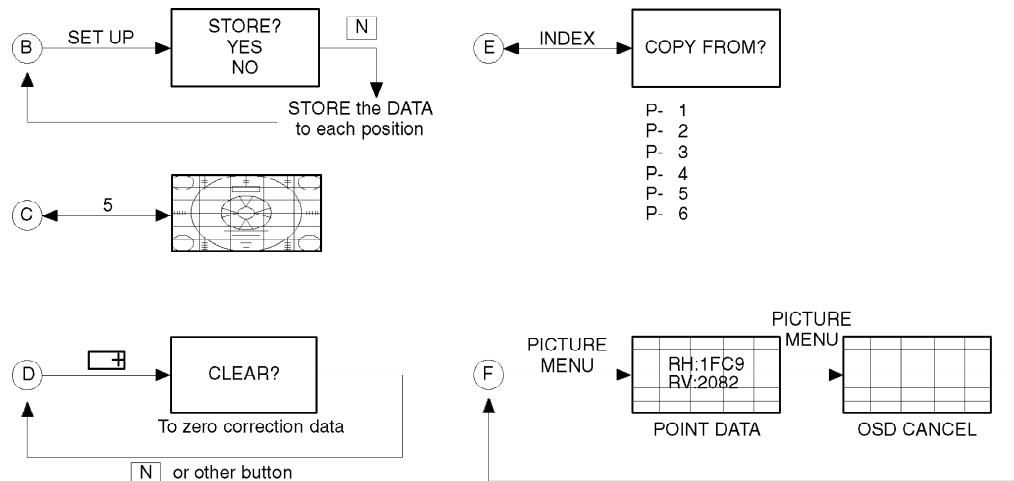
10.4.3. Blue Convergence Adjustment

1. Push the "MUTE" button twice and change to the Blue Adjustment of cyan Colour.
2. Repeat the same steps described for the Green Conv.Adj. in 1~16 to perform the Blue Convergence Adjustment.
3. To store the data after the Blue Convergence Adjustment has been completed, push the "MAIN MENU" button and then push the "N" button.
4. To switch from the Convergence Adjustment Mode to the Service Mode, press the Power button and then push the "N" button. Repeat the same adjustment after inputting the 60Hz (NTSC) signal.



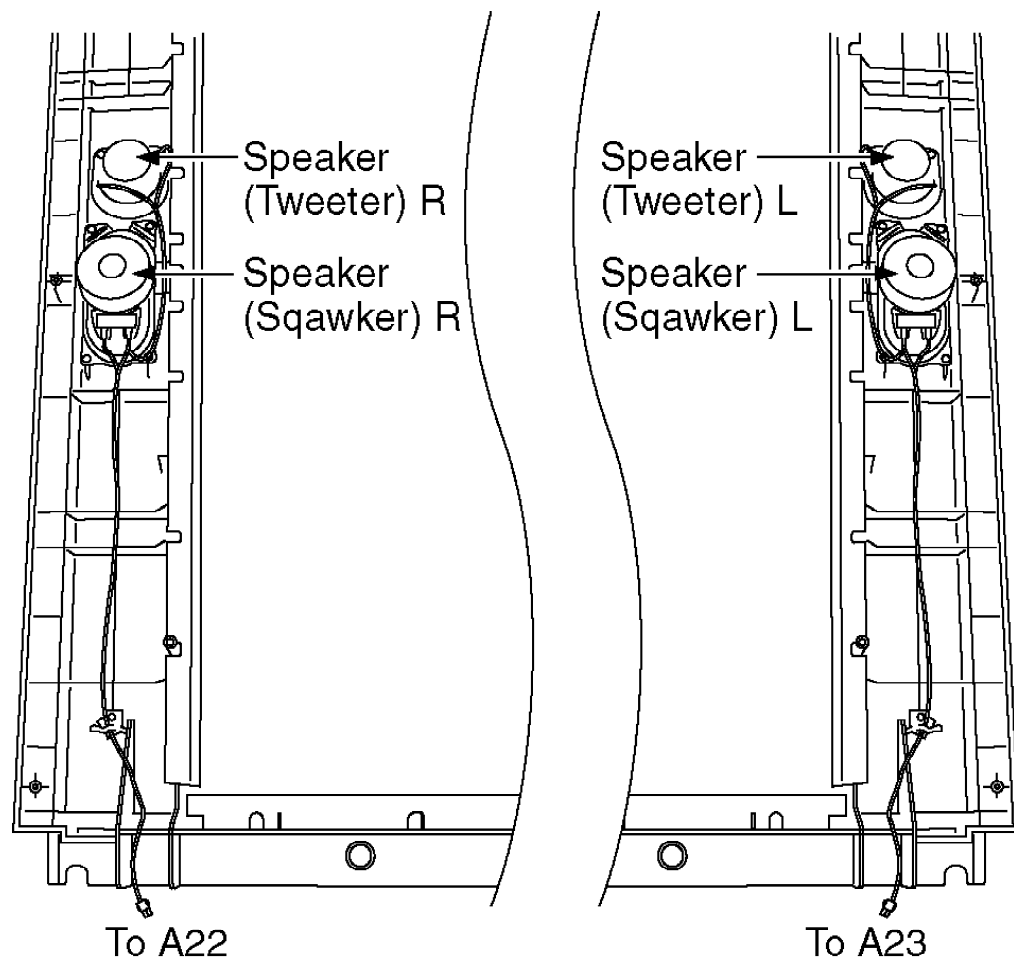
Fine Convergence Control Chart



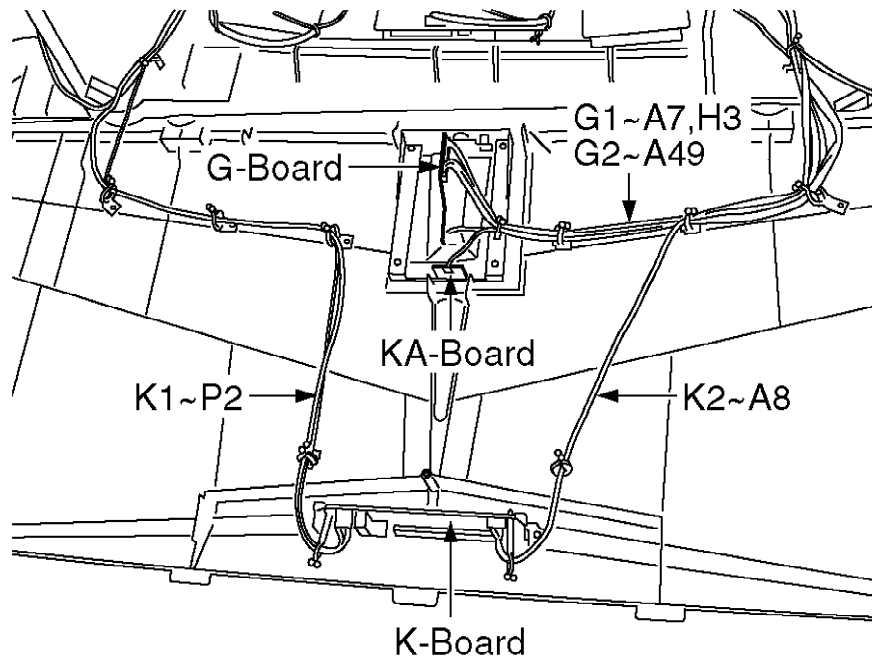


11. Location of Lead Wiring

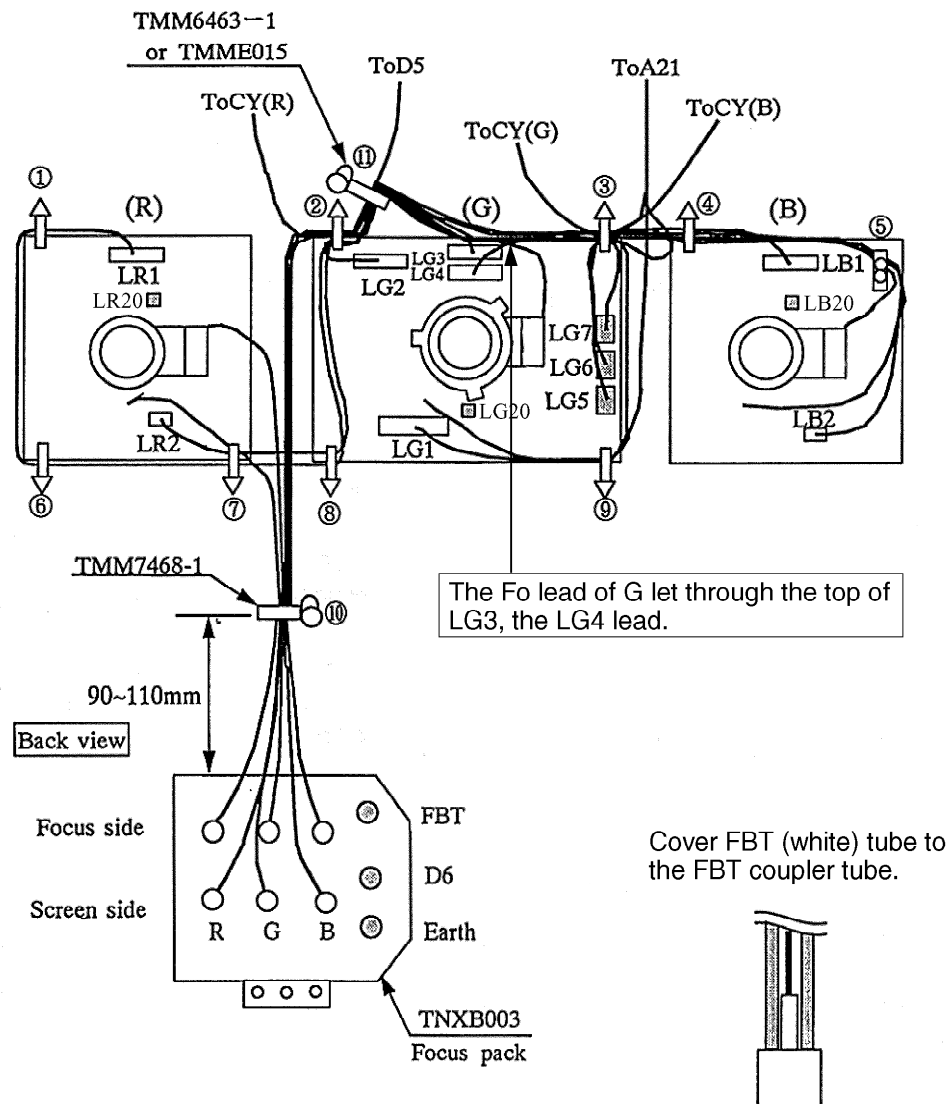
11.1. Location of Lead Wiring (1)



11.2. Location of Lead Wiring (2)

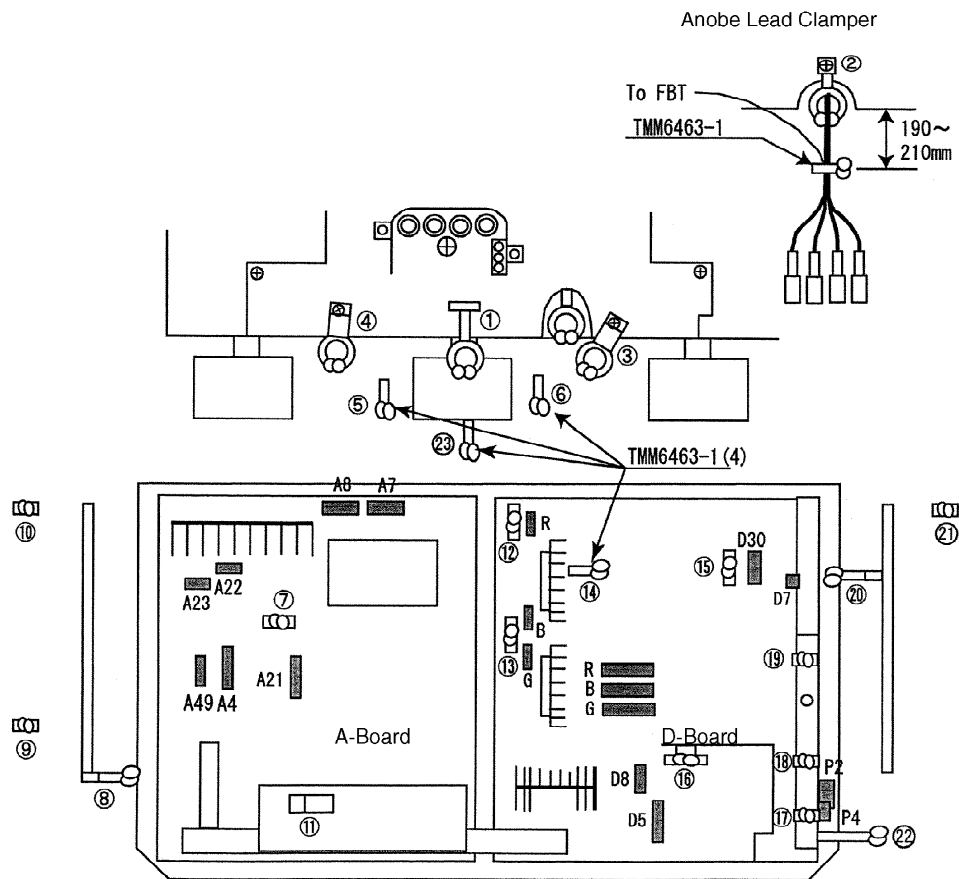


11.3. Location of Lead Wiring (3)



INSERTION OF CONNECTOR

LR1, LR2, LG1, LG2, LG3, LG4, LG5, LG6, LG7, LB1, LB2,
LR20, LG20, LB20



INSERTION OF CONNECTOR

A6, A7, A21, A22, A23, A49, Anode distributor (R, G, B, FBT), D8, D5, DY (R, G, B), CY (R, G, B), D30, P1, P2, P4, Focus Pack (R)

CLAMP DOUBLE CLAMP : ◎

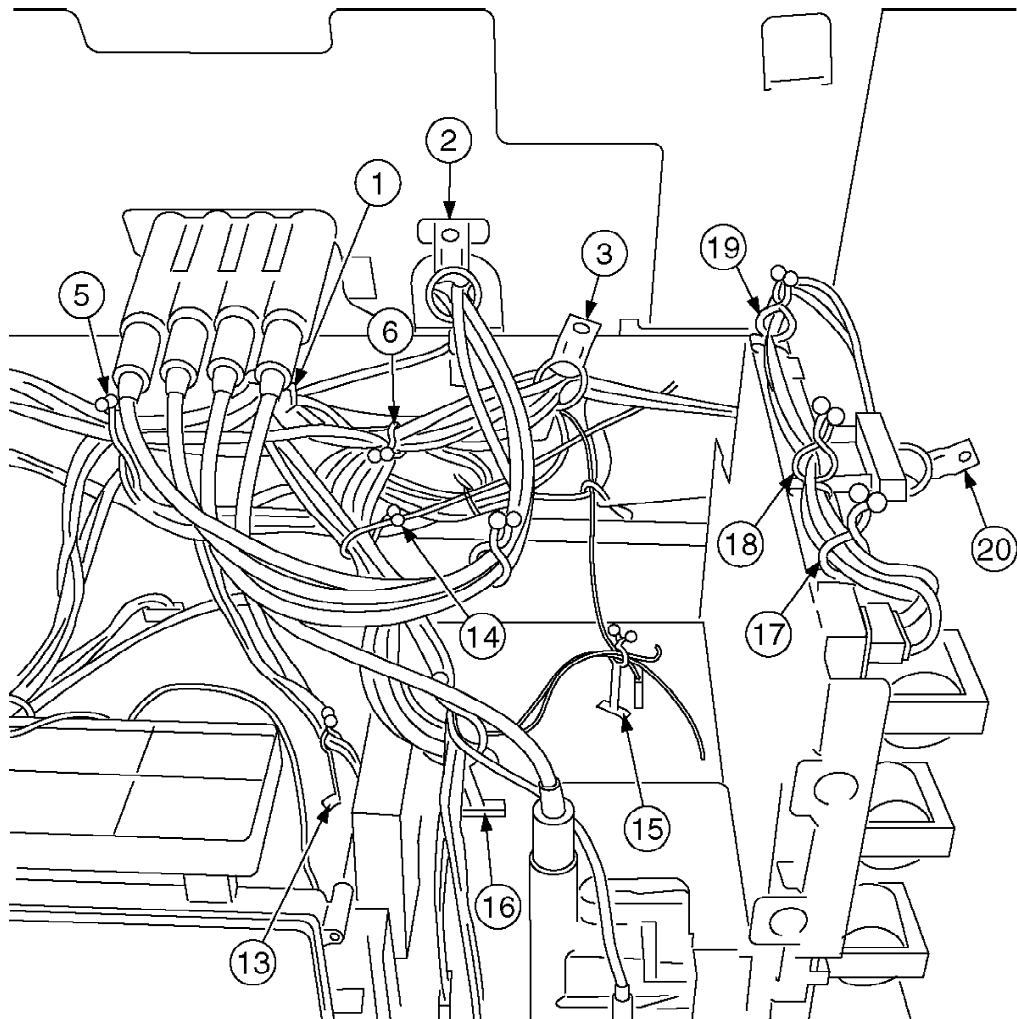
WIRES	CLAMP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A22-RSP																								
B-DY																								
B-CY																								
G-DY																								
G-CY																								
R-DY																								
R-CY																								
D8-Distributor																								
G2-A49																								
A6-K2																								
A2-LB2, LG1, LR2																								
A23-LSP																								
LG2-D5																								
FBT-Focus pack																								
D30-Focus pack																								
K1-P2																								
Cabinet earth-P4																								
AC cord																								
G1-A7, H3																								
D7-DG																								

A7 only H3 only

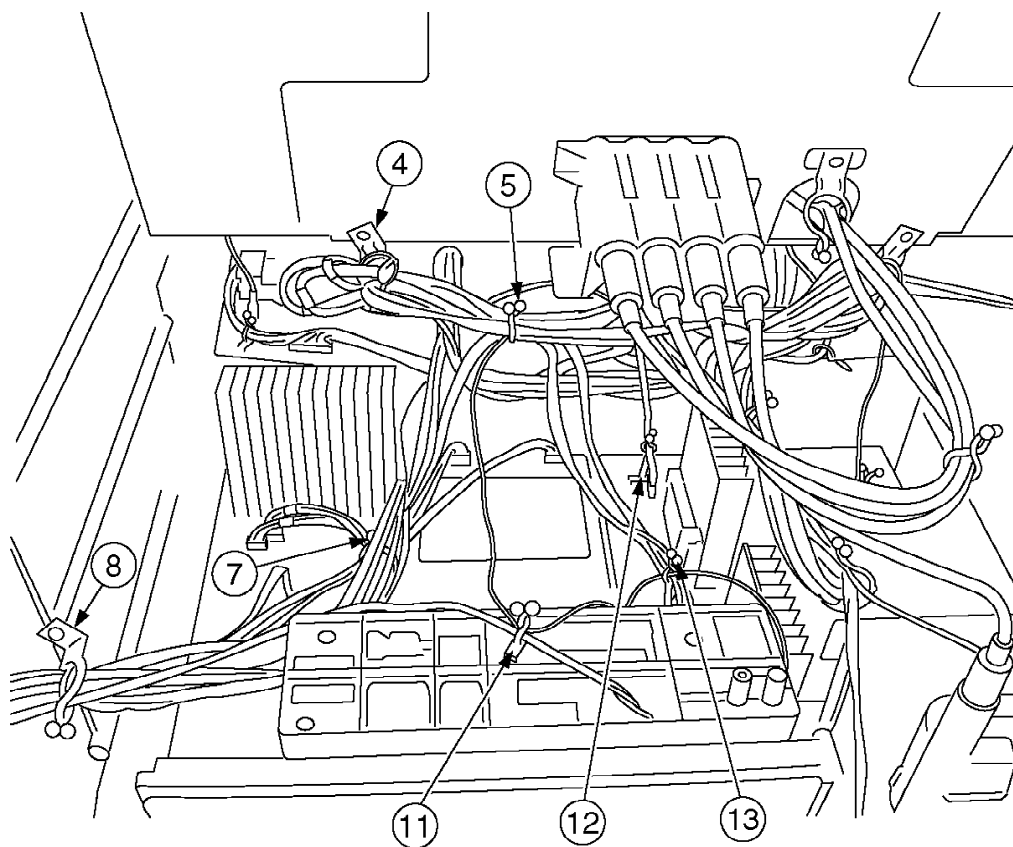
NOTICE FOR WIRE DRESSING

1. After insert R, G, B on CRT-print, confirm that wire should not touch to material parts of CRT-print.

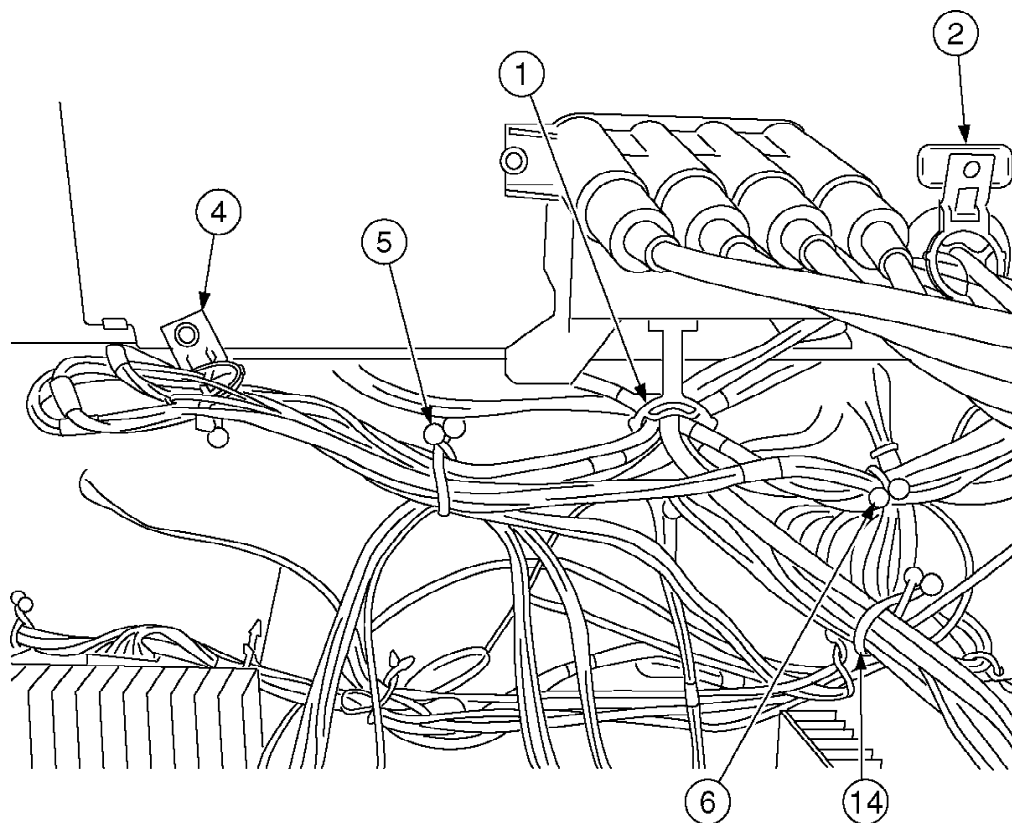
11.5. Location of Lead Wiring (5)



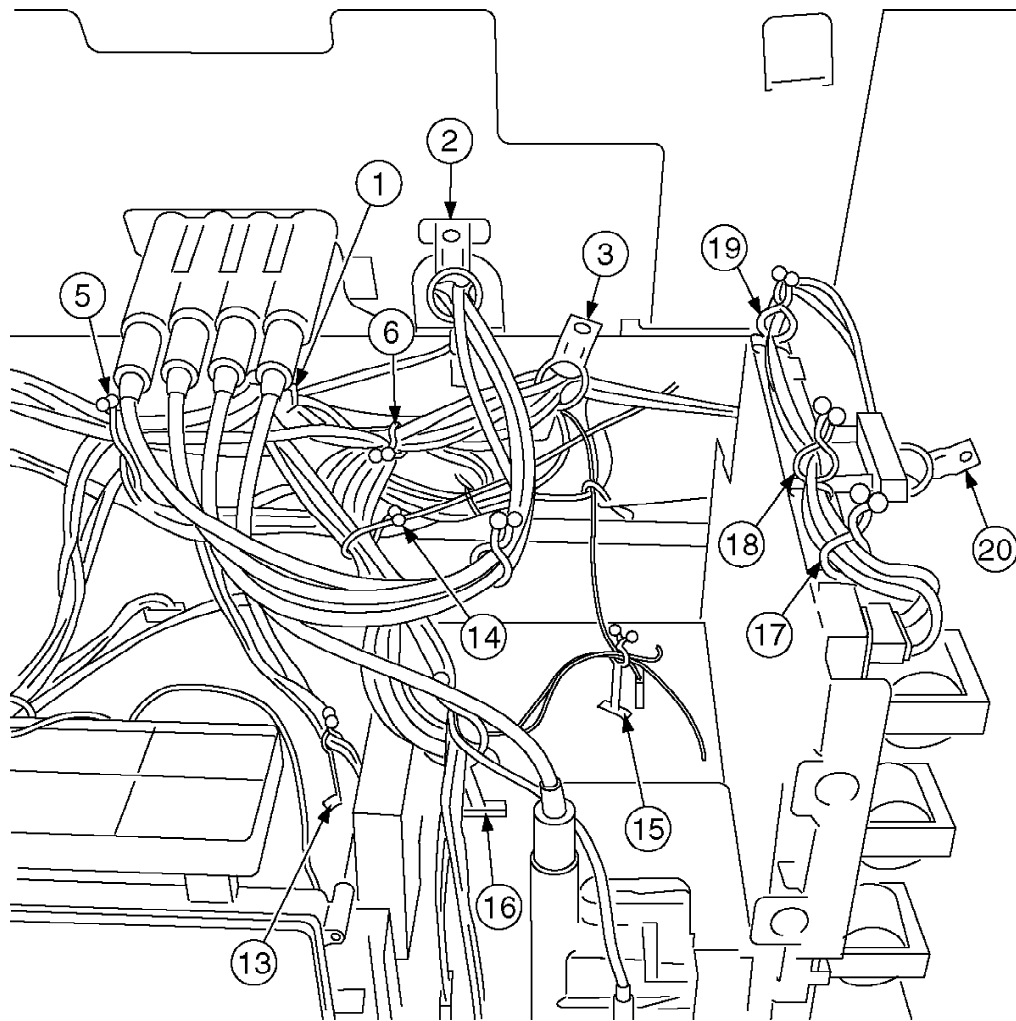
11.6. Location of Lead Wiring (6)



11.7. Location of Lead Wiring (7)



11.8. Location of Lead Wiring (8)



12. Conductor Views

12.1. A-Board

12.2. D-Board

12.3. DC-Board

12.4. DG-Board

12.5. H-Board

12.6. LG, LR and LB Board

12.7. P-Board

12.8. U-Board

12.9. G, K and KA-Board

13. Block Diagram

13.1. Audio Block Diagram

13.2. Video Block Diagram

13.3. Power Block Diagram

13.4. Control Block Diagram

14. Schematic Diagram

14.1. Schematic Diagram Notes

Important Safety Notice	
Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacture's specified parts.	
Notes:	
1. Resistor	
All resistors are carbon 1/4W resistor, unless marked as follows: Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).	
\square	: Nonflammable
Δ	: Solid
\square	: Wire Wound
\square	: Metal Oxide
\square	: Metal Film
\square	: r-use:
2. Capacitor	
All capacitors are ceramic 50V capacitor, unless marked as follows. Unit of capacitance is μ F, unless otherwise noted.	
\square	: Temperature Compensation
\square	: Polyester
\square	: Metallized Polyester
\square	: Polypropylene
\square	: Electrolytic
\square	: Bipolar
\square	: Dipped Tantalum
\square	: Z-Type
3. Coil	
Unit of inductance is μ H, unless otherwise noted.	
4. Test Point	
\square	: Test Point position
5. Earth Symbol	
\square	: Chassis Earth (Cold)
\square	: Line Earth (Hot)
6. Voltage Measurement	
Voltage is measured by a DC voltmeter. Conditions of the measurement are the following:	
Power Source	AC 220V-240V, 50/60Hz
TX-43/51P800X/HM/HQ, TX-43P800HZ	AC 110V-240V, 50/60Hz
TX-43/51P800X	Colour Bar signal (RF)
Receiving Signal	Maximum positions
All customer's controls	
7. Number in red circle indicates waveform number.	
(See waveform pattern table.)	
8. When arrow mark (\nearrow) is found, connection is easily found from the direction of arrow	
9. Indicates the major signal flow.	
Video \Rightarrow	Audio \Rightarrow
10. This schematic diagram is the latest at the time of printing and subject to change without notice.	

TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
Schematic Diagram Note

Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions.
All circuits, except the Power Circuit, are cold.

Precautions:

- a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
 - b. Do not short-circuit the hot and cold circuits or a fuse may blow and parts may break.
 - c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
Connect the earth of instruments to the earth connection of the circuit being measured.
 - d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
MA150- MA162 (Replacement part)

TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
Schematic Diagram Note

14.2. A-Board (1 of 5) Schematic Diagram

14.3. A-Board (2 of 5) Schematic Diagram

14.4. A-Board (3 of 5) Schematic Diagram

14.5. A-Board (4 of 5) Schematic Diagram

14.6. A-Board (5 of 5) Schematic Diagram

14.7. D-Board (1 of 2) Schematic Diagram

14.8. D-Board (2 of 2) Schematic Diagram

14.9. DC-Board Schematic Diagram

14.10. DG-Board (1 of 6) Schematic Diagram

14.11. DG-Board (2 of 6) Schematic Diagram

14.12. DG-Board (3 of 6) Schematic Diagram

14.13. DG-Board (4 of 6) Schematic Diagram

14.14. DG-Board (5 of 6) Schematic Diagram

14.15. DG-Board (6 of 6) Schematic Diagram

14.16. H-Board (1 of 2) Schematic Diagram

14.17. H-Board (2 of 2) Schematic Diagram

14.18. LG-Board Schematic Diagram

14.19. LR and LB-Board Schematic Diagram

14.20. P-Board Schematic Diagram

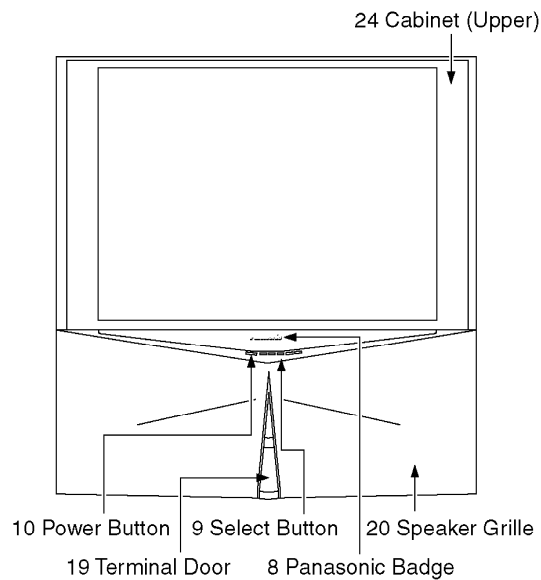
14.21. U-Board (1 of 2) Schematic Diagram

14.22. U-Board (2 of 2) Schematic Diagram

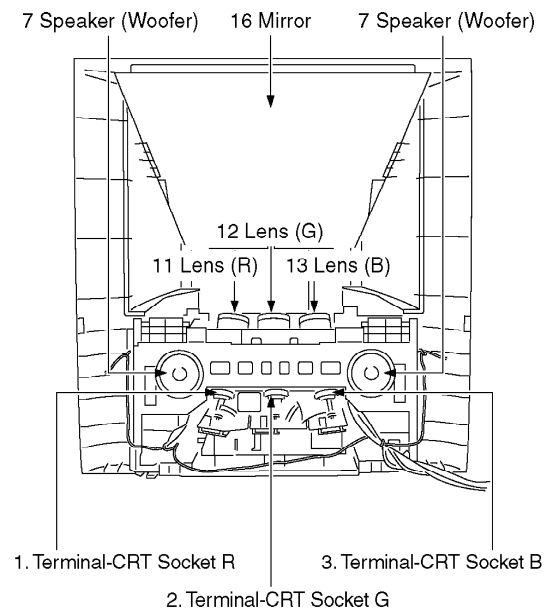
14.23. G, K and KA Board Schematic Diagram

15. Parts Location

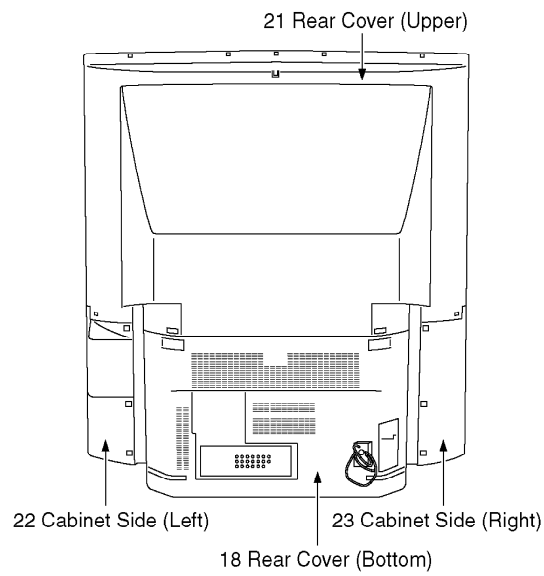
Front View (1)



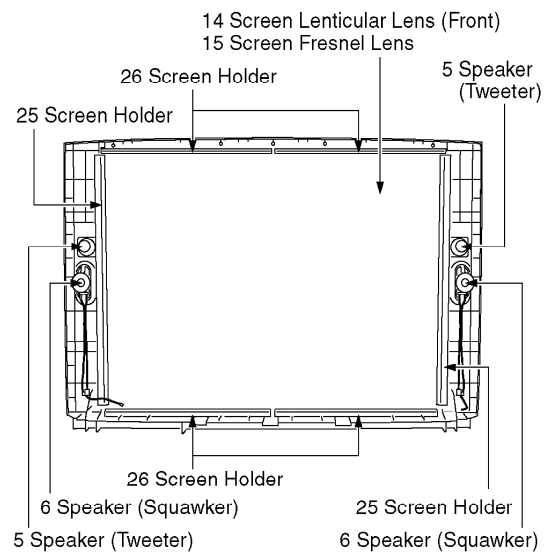
Front View (2)



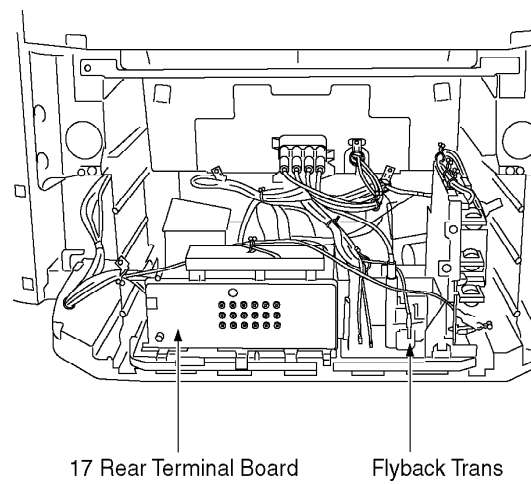
Rear View (1)



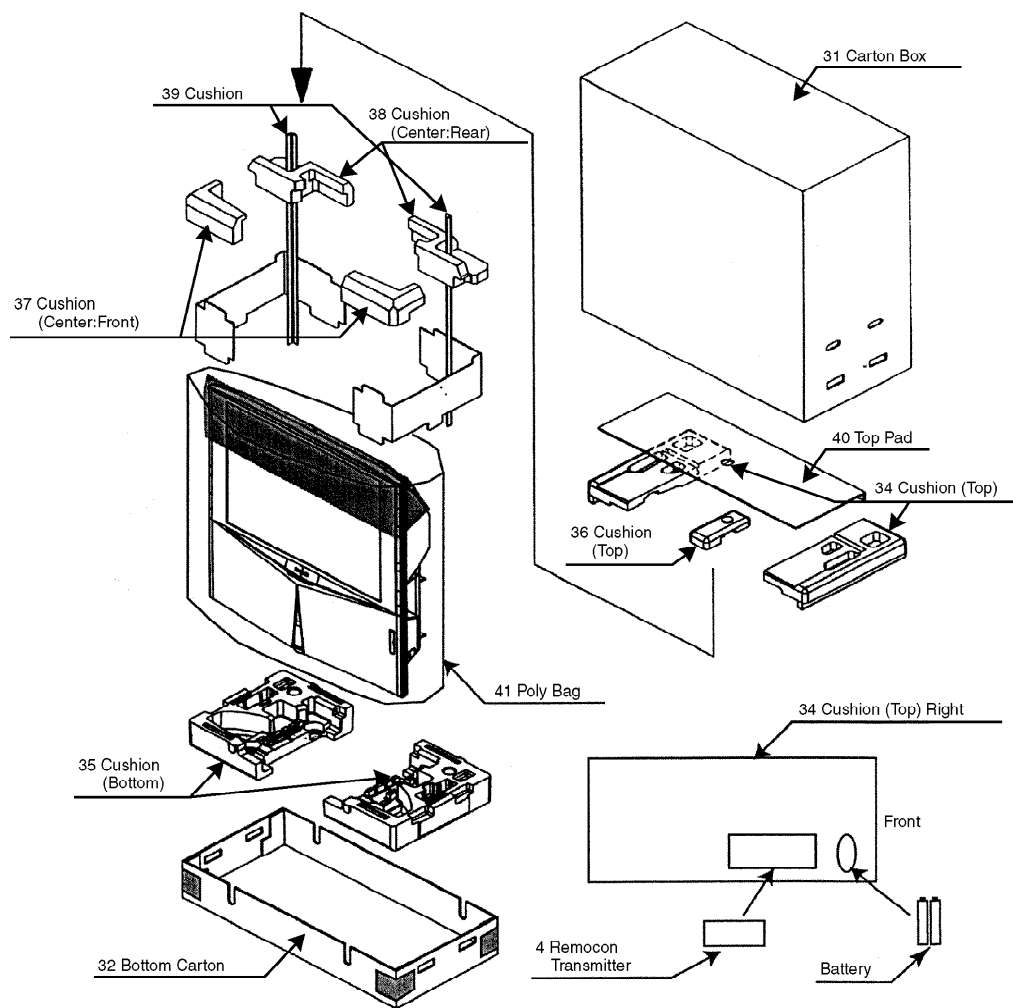
Rear View (2)

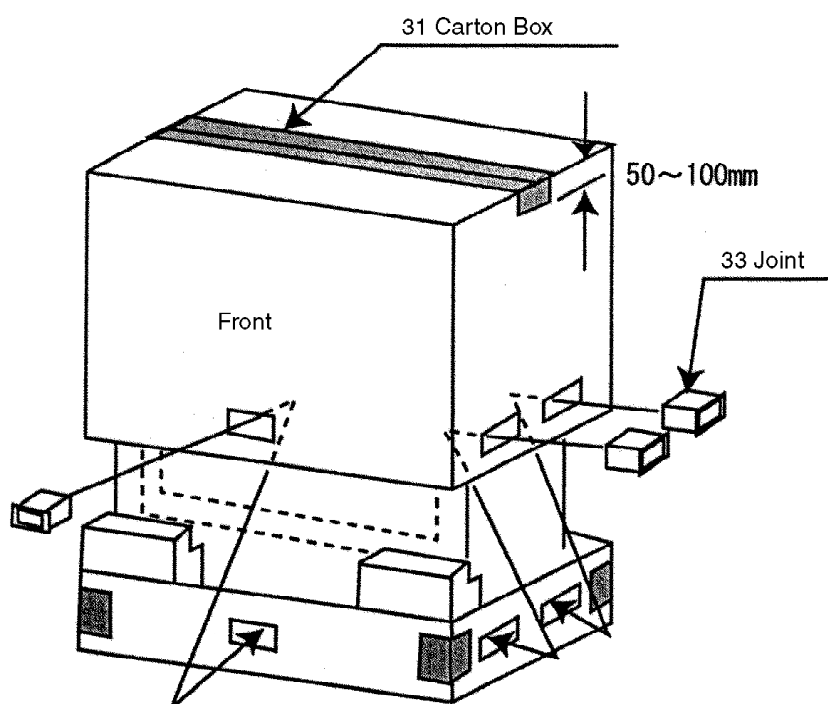


Rear View (3)



16. Packing Exploded View





17. Mechanical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	3F1032072220	TERMINAL-CRT SOCKET R	1	
2	3F1032072350	TERMINAL-CRT SOCKET G	1	
3	3F1032072570	TERMINAL-CRT SOCKET B	1	
	D9ZZ00000075	FOCUS CONTROL VLUME	1	D9ZZ00000079 ⚠
4	EUR511254	REMOCON TRANSMITTER	1	
	KDY2ASG12F	DEFLECTION YOKE	3	⚠
	KFT7CP336F	HIGH VOLTAGE DIVISION	1	⚠
5	L0AA05A00045	SPEAKER (TWEETER)	2	51 inch model
6	L0AA12B00006	SPEAKER (SQUAWKER)	2	51 inch model
6	L0AA12B00008	SPEAKER	2	43 inch model
7	L0AA13A00003	SPEAKER(W00FER)	2	
	TBLB0010	CASTER	4	
8	TBMA071	PANASONIC BADGE	1	
9	TBX0A83201	SELECT BUTTON	1	
10	TBX0A83301	POWER BUTTON	1	
	TEKC029	DANPER	1	
	TES0A213	SPRING	1	
	TES202	SPRING	2	43 inch model
	TES6583	SPRING FOR TR	2	
	TESA016	CRT FIXING PLATE	4	43 inch model
	TESA017	CRT FIXING PLATE	4	43 inch model
	TESA031	SPRING	1	51 inch model
	TESA031	SPRING	2	43 inch model
	THEC071U	SCREW	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	THT1062	SCREW	6	43 inch model
	THTA006Z	SCREW	46	51 inch model
	THTA006Z	SCREW	45	43 inch model
	TJS2A8420	AC CORD ADAPTOR	1	K2DR42D00001 TX-51P800X,TX-43P800X
11	TKGF0089	LENS (R)	1	51 inch model
11	TKGF0094	LENS (R)	1	43 inch model
12	TKGF0090	LENS (G)	1	51 inch model
12	TKGF0095	LENS (G)	1	43 inch model
13	TKGF0091	LENS (B)	1	51 inch model
13	TKGF0096	LENS (B)	1	43 inch model
14	TKGH5077	SCREEN LENTICULAR LENS	1	51 inch model
14	TKGH5079	SCREEN LENTICULAR LENS	1	43 inch model
15	TKGH5078	SCREEN FRESNEL LENS	1	51 inch model
15	TKGH5080	SCREEN FRESNEL LENS	1	43 inch model
16	TKGJ5078	MIRROR	1	51 inch model
16	TKGJ5079	MIRROR	1	43 inch model
	TKGJ5097	MIRROR	1	43 inch model
	TKJC005-1	SPEAKER BORAD (LEFT)	1	51 inch model
	TKJC006-1	SPEAKER BORAD (RIGHT)	1	51 inch model
	TKK0A8521	LED PANEL	1	43 inch model
	TKK0A8522	RECIEVER PANEL	1	43 inch model
	TKK0A8523	TERMNAL DOOR	1	
	TKKF5046-1	COVER	1	
	TKKH5061	COVER	2	
	TKKL5268	AC CORD COVER	1	
17	TKP0AA7505	REAR TERMINAL BOARD	1	
	TLHX015	R/G/B COIL	3	
	TMKX267	SHEET FOR IC	1	51 inch model
	TMKX268	SHEET FOR IC	1	51 inch model
	TMM0A436	A-PCB GUIDE	2	
	TMM0A512	POWER BUTTON SPEACER	1	
	TMM14444	CLAMPER	1	51 inch model
	TMM14520	VALVE	3	43 inch model
	TMM15582	SPEACER	2	
	TMM16452	CLAMPER	9	51 inch model
	TMM16452	CLAMPER	8	43 inch model
	TMM16473-1	CLAMPER	14	51 inch model
	TMM16473-1	CLAMPER	17	43 inch model
	TMM16480-1	CLAMPER	3	51 inch model
	TMM16480-1	CLAMPER	1	43 inch model
	TMM16497-1	CLAMPER	8	
	TMM3565	RUBBER CAP	3	51 inch model
	TMM3565	RUBBER CAP	4	43 inch model
	TMM6428-1	CLAMPER	8	51 inch model
	TMM6428-1	CLAMPER	5	43 inch model
	TMM6463-1	CLAMPER	4	51 inch model
	TMM6463-1	CLAMPER	5	43 inch model
	TMM7464-2	CLAMPER	1	51 inch model
	TMM7464-2	CLAMPER	4	43 inch model
	TMM7468-1	CLAMPER	1	
	TMM76403-1	CLAMPER	1	51 inch model
	TMM76430-1	CLAMPER	3	51 inch model
	TMM76430-1	CLAMPER	4	43 inch model

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TMME047	CLAMPER	1	
	TMMJ006	SPACER	3	43 inch model
	TMMJ007	SPACER	3	43 inch model
	TMMX006	SPACER	3	43 inch model
	TMMX027-2	HOLDER	1	
	TMW0A701	LED HOLDER	1	43 inch model
	TMWJ032	LED SPACER	1	43 inch model
	TMX0A414	BRACKET	1	
	TMZ0A9102	DOOR FRAME	1	
	TMZ159837-1	CRT BOSS	2	
31	TPCB40702	CARTON BOX	1	TX-51P800X
31	TPCB41102	CARTON BOX	1	TX-43P800X
31	TPCB40701	CARTON BOX	1	TX-51P800HM/HQ
31	TPCB41101	CARTON BOX	1	TX-43P800HM/HQ/HZ
32	TPCB40801	BOTTOM CARTON	1	51 inch model
32	TPCB41201	BOTTOM CARTON	1	43 inch model
33	TPD169487	JOINT	6	
34	TPDA0774	CUSHION (TOP)	1	51 inch model
34	TPDA0784	CUSHION (TOP)	1	43 inch model
35	TPDA0775	CUSHION (BOTTOM)	1	51 inch model
35	TPDA0785	CUSHION (BOTTOM)	1	43 inch model
36	TPDA0776	CUSHION (TOP)	1	51 inch model
36	TPDA0786	CUSHION (TOP)	1	43 inch model
37	TPDA0777	CUSHION (CENTER:FRONT)	1	51 inch model
37	TPDA0787	CUSHION (CENTER:FRONT)	1	43 inch model
38	TPDA0778	CUSHION (CENTER:REAR)	1	51 inch model
38	TPDA0788	CUSHION (CENTER:REAR)	1	43 inch model
39	TPDF0843	CUSHION	2	51 inch model
39	TPDF0844	CUSHION	2	43 inch model
40	TPDF1056	TOP PAD	1	51 inch model
40	TPDF1058	TOP PAD	1	43 inch model
	TPDF1088	CUSHION	1	51 inch model
	TPDF1089	PAD	4	43 inch model
41	TPEH200	POLY BAG	1	
	TPEH213	PROTECT COVER	1	51 inch model
	TPEH090	PROTECT COVER	1	43 inch model
	TQBC0540	INSTRUCTION BOOK(ENGLISH)	1	
	TQBC0541	INSTRUCTION BOOK(ARABIC)	1	TX-51P800X
	TSX5134-3	AC POWER CORD	1	TX-51P800X ⚠
	TSX5132-2	AC POWER CORD	1	TX-51P800HM
	TSX1495	AC POWER CORD	1	TX-51P800HQ
	TSXA106	AC POWER CORD	1	TX-43P800X ⚠
	TSXA5132-2	AC POWER CORD	1	TX-43P800HM ⚠
	TSXA1495	AC POWER CORD	1	TX-43P800HQ/HZ ⚠
18	TTUA0683	REAR COVER(BOTTOM)	1	TX-51P800X
18	TTUA0682	REAR COVER(BOTTOM)	1	TX-51P800HM
18	TTUA0671	REAR COVER(BOTTOM)	1	TX-51P800HQ
18	TTUA0699	REAR COVER(BOTTOM)	1	TX-43P800X
18	TTUA0697	REAR COVER(BOTTOM)	1	TX-43P800HM
18	TTUA0698	REAR COVER(BOTTOM)	1	TX-43P800HQ/HZ
	TTYA0578	CABINET (BOTTOM)	1	51 inch model
	TTYA0615	CABINET (BOTTOM)	1	43 inch model
	TXCB1JBV	PICTURE TUBE (B)	1	51 inch model

PROJECT	PROJECT CODE (S)		STATION NUMBER
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TXCB1HWV	PICTURE TUBE (B)	1	43 inch model
	TXCG1JBV	PICTURE TUBE (G)	1	
	TXCR1JBV	PICTURE TUBE (R)	1	51 inch model
	TXCR1HWV	PICTURE TUBE (R)	1	43 inch model
19	TXFKK010JBV	TERMNAL DOOR	1	51 inch model
19	TZRKK010JBV	TERMNAL DOOR	1	43 inch model
	TXFKK020JBV	TERMNAL DOOR	1	51 inch model
	TXF3A01BFZ	CRT EARTH LEAD	1	43 inch model
20	TXFKP010JCV	SPEAKER GRILLE	1	TX-51P800X
20	TXFKP010JBV	SPEAKER GRILLE	1	TX-51P800HM/HQ
20	TXFKP010HZV	SPEAKER GRILLE	1	TX-43P800X
20	TXFKP010HWV	SPEAKER GRILLE	1	TX-43P800HM/HQ/HZ
21	TXFKU010JBV	REAR COVER(UPPER)	1	51 inch model
21	TZRKU010HWV	REAR COVER (UPPER)	1	43 inch model
22	TXFKX010JBV	CABINET SIDE (LEFT)	1	51 inch model
22	TXFKX010HWV	CABINET SIDE (LEFT)	1	43 inch model
23	TXFKX020JBV	CABINET SIDE (RIGHT)	1	51 inch model
23	TXFKX020HWV	CABINET SIDE (RIGHT)	1	43 inch model
24	TXFKY010JBV	CABINET (UPPER)	1	51 inch model
24	TZRKY010HWV	CABINET (UPPER)	1	43 inch model
	TXFKY020JBV	CABINET (UPPER)	1	51 inch model
25	TXFMZ010JBV	SCREEN HOLDER(SIDE)	2	51 inch model
25	TXFMZ010HWV	SCREEN HOLDER(SIDE)	2	43 inch model
26	TXFMZ020JBV	SCREEN HOLDER(SIDE)	4	51 inch model
26	TXFMZ010JBV	SCREEN HOLDER(SIDE)	2	43 inch model
	TXJA220JBV-1	SPEAKER LEED(R)	1	43 inch model
	TXJA230JBV-1	SPEAKER LEED(L)	1	43 inch model
	XNP4F	NUT	3	
	XTB4+10J	SCREW	12	
	XTB4+12A	SCREW	13	
	XTB4+12G	SCREW	4	51 inch model
	XTB4+12G	SCREW	5	43 inch model
	XTBT964	SCREW	19	
	XTV3+12AFC	SCREW	2	
	XTV3+12G	SCREW	20	
	XTV3+12GFZ	SCREW	3	
	XTV3+6J	SCREW	2	
	XTW3+10T	SCREW	43	51 inch model
	XTW3+10T	SCREW	37	43 inch model
	XTW3+8T	SCREW	2	51 inch model
	XTW3+8T	SCREW	4	43 inch model
	XTW4+Z15D	SCREW	11	51 inch model
	XTW4+Z15D	SCREW	10	43 inch model
	XTWT983G	SCREW	4	43 inch model
	XWC8B	WASHER	1	
	XWG4	WASHER	3	
	XWG8	WASHER	1	
	XYN3+C10	SCREW	1	43 inch model
	XYN3+C8	SCREW	1	
	XYN3+F10	SCREW	2	51 inch model
	XYN3+F10	SCREW	1	43 inch model
	XYN3+F12	SCREW	1	
	XYN3+F16	SCREW	4	
	XYN3+F8	SCREW	1	51 inch model

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	XYN3+J8	SCREW	24	51 inch model
	XYN3+J8	SCREW	25	43 inch model
	XYN4+F14	SCREW	12	
	XYN4+J10	SCREW	12	
	XYN4+J8FZ	SCREW	12	
	XYN5+F12	SCREW	12	
	XYN5+F16	SCREW	12	
	XZBT6506	POLY BAG	1	

18. Electrical Replacement Parts List

18.1. Replacement Parts List Notes

Important Safety Notice

Components identified by △ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W
Type Allowance

2. Capacitor

Example:







ECKF1H103ZF C 0.01UF, Z, 50V
Type Allowance


Type	Allowance
C : Carbon	F : ±1%
F : Fuse	G : ±2%
M : Metal Oxide	J : ±5%
Metal Film	K : ±10%
S : Solid	M : ±20%
W : Wire Wound	

Type	Allowance
C : Ceramic	C : ±0.25pF
E : Electrolytic	D : ±0.5pF
P : Polyester	F : ±1pF
Polypropylene	G : ±3pF
T : Tantalum	J : ±5pF
	K : ±10pF
	L : ±15pF
	M : ±20pF
	P : +100%, -0%
	Z : +80%, -20%

18.2. Electrical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	1	**CM NOTHING**	1	(RTL)
■	1	**CM NOTHING**	1	(RTL)
A1-A3	TJSF19916	16P CONNECTOR	3	K1KA16A00119
A4	TJS3A9890	9P CONNECTOR	1	K1KA09A00074
A6	K1KA05A00139	5P CONNECTOR	1	
A7	TJS3A9880	8P CONNECTOR	1	K1KA08A00179
A11	TJSF10035	25P CONNECTOR	1	K1KB35A00001
A15	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
A17	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
A21	TJS3A9910	11P CONNECTOR	1	K1KA11A00059
A22	K1KA05A00139	5P CONNECTOR	1	
A23	TJS3A9650	4P CONNECTOR	1	K1KA04A00194
A44	TJSF57570	70P CONNECTOR	1	
A49	K1KA05A00139	5P CONNECTOR	1	
A50	TJSF19916	16P CONNECTOR	1	K1KA16A00119
A51-53	K1KA10A00263	10P CONNECTOR	3	
A54	TJS3A9680	7P CONNECTOR	1	K1KA07A00095
A1001,02	K1KA30A00128	30P CONNECTOR	2	
C005	ECA1HM100	E 10UF, 50V	1	
C006	ECJ2VC1H090D	C 9PF, C, 50V	1	
C008	ECA0JM222	E 2200UF, 6.3V	1	
C010	ECA0JM102	E 1000UF, 6.3V	1	
C014	ECA1HM100	E 10UF, 50V	1	
C015	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
C016,17	ECJ2FB1C474K	C 0.47UF, Z, 16V	2	
C018	ECJ2XC1H220J	C 22UF, J, 50V	1	
C019	ECJ2XC1H331J	C 330PF, J, 50V	1	
C020	ECJ1VC1H121J	C 120PF, J, 50V	1	TX-51P800X/HQ,TX-43P800X/HQ/HZ
C020	ECJ1VC1H181J	C 180PF, J, 50V	1	TX-51P800HM,TX-43P800HM
C022	ECQB1H102JF	P 1000PF, J, 50V	1	
C024	ECA0JM222	E 2200UF, 6.3V	1	
C025	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C026	ECJ1XC1H331J	C 330PF, J, 50V	1	
C060	ECA0JM102	E 1000UF, 6.3V	1	
C068	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C351	ECA2EM100	E 10UF, 250V	1	
C353	ECKD2H103PU	C 0.01UF, P,500V	1	
C356	ECKD3D102KBN	C 1000PF, K, 2KV	1	
C357	ECQB1H104KF	P 0.1UF, K, 50V	1	
C360	ECA1VM470	E 47UF, 35V	1	
C361	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C364	ECA1VM470	E 47UF, 35V	1	
C365	ECA2EM470	E 47UF, 250V	1	
C371	ECA2EM100	E 10UF, 250V	1	
C373	ECKD2H103PU	C 0.01UF, P,500V	1	
C374	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C376	ECKD3D102KBN	C 1000PF, K, 2KV	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C377	ECQB1H104KF	P 0.1UF, K, 50V	1	
C380	ECA1VM470	E 47UF, 35V	1	
C381	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C391	ECA2EM100	E 10UF, 250V	1	
C393	ECKD2H103PU	C 0.01UF, P,500V	1	
C396	ECKD3D102KBN	C 1000PF, K, 2KV	1	
C397	ECQB1H104KF	P 0.1UF, K, 50V	1	
C451	ECA1VM470	E 47UF, 35V	1	
C452,53	ECA1VM471	E 470UF, 35V	2	
C454	ECKF1H271KB	C 270PF, K, 50V	1	
C455	ECEA1CN220U	E 22UF, 16V	1	
C456	ECQB1224KF	P 0.22UF, 100V	1	
C460	ECA1HM100	E 10UF, 50V	1	
C461	ECA1HM102	E 1000UF, 50V	1	
C462	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C464	ECKF1H471KB	C 470PF, K, 50V	1	
C465	ECEA1CN100U	E 10UF, 16V	1	
C502	ECA1VM101	E 100UF, 35V	1	
C503	ECQV1H104JM	P 0.1UF, J, 50V	1	
C504	ECKD2H102KB2	C 1000PF, K,500V	1	
C505	ECA1EM222	E 2200UF, 25V	1	
C511	ECCD3F181KGE	C 270PF, K, 2KV	1	
C512	ECWH20152JVY	P 1500PF, J, 2KV	1	
C513	ECQF6682JZ	P 6800PF, J,630V	1	
C514	ECWH20222JVY	P 2200PF, J, 2KV	1	
C515	ECWF2474JSR	P 0.47UF, J,250V	1	
C516	ECWH20272JVY	P 2700PF, J, 2KV	1	
C517,18	ECKD3D221JBP	C 220 PF, J, 2KV	2	
C519	ECQB1H682JF3	P 6800PF, J, 50V	1	
C520	ECA2EM470	E 47UF, 250V	1	
C521	ECKD2H102KB2	C 1000PF, K,500V	1	
C522	ECA160V33U	E 33UF, 160V	1	
C523	ECA1HM470	E 47UF, 50V	1	
C524	ECQB1224JF	P 0.22UF, J,100V	1	
C525	ECEA1HN220U	E 22UF, 50V	1	
C526	ERDS2TC0	C 0 OHM, 1/4W	1	
C531	ECKD2H101KB	C 100PF, K,500V	1	
C533	ECQF6103JZH	P 0.01UF, J,630V	1	
C540	EXCELSA24	BEAD CHOKE	1	
C701	ECKD3D271KBP	C 270PF, K, 2KV	1	
C702	ECQE2824KF	P 0.82UF, J,250V	1	
C704,05	ECQE1106KF	P 10UF, K,250V	2	
C754	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C802-04	ECKDAE472ZE	C 4700PF, Z,	3	
C805,06	ECQU2A224MN	P 0.22UF, M,250V	2	
C807	ECKDNA102MB	C 1000PF, Z,	1	
C808	ECA1VM221	E 220UF, 35V	1	
C809	ECKDNA102MB	C 1000PF, Z,	1	
C812	EC0S2EP471BB	E 470UF, 250V	1	TX-51P800X,TX-43P800X
C813	ECKD3D681KBP	C 680PF, K, 2KV	1	
C814	EC0S2EP471BB	E 470UF, 250V	1	TX-51P800X,TX-43P800X
C815	ECKD3D681KBP	C 680PF, K, 2KV	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C816,17	ECKDNA102MB	C 1000PF, Z,	2	
C819	ECKD2H681KB2	C 680PF, K,500V	1	
C820	EC0S2EP471BB	E 470UF, 250V	1	TX-51P800X,TX-43P800X
C820	EC0S2GP221BB	E 220UF, 400V	1	TX-51P800HM/HQ,TX-43P800HM/HQ/HZ
C822	EC0S2EP471BB	E 470UF, 250V	1	TX-51P800X,TX-43P800X
C822	EC0S2GP221BB	E 220UF, 400V	1	TX-51P800HM/HQ,TX-43P800HM/HQ/HZ
C823	ECQF4333JZ	P 0.033UF, J,400V	1	
C828	ECQB1H471JF	P 470PF, J, 50V	1	
C829	ECQB1H681JF	P 680PF, J, 50V	1	
C832	ECKD3D152KBP	C 1500PF, K, 2KV	1	
C833	EC0S2CA681BB	E 680UF, 160V	1	
C834	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C835	ECA1CM102	E 1000UF, 16V	1	
C836	EEUFC1A471	E 470UF, 10V	1	
C837	EEUFC1E272	E 2700UF, 25V	1	
C838	ECA1CHG471	E 470UF, 16V	1	
C839	ECKD3A151KBP	C 150PF, K, 1KV	1	
C840	EEUFC1E821	E 820UF, 25V	1	
C841	EEUFC1E272	E 2700UF, 25V	1	
C842	ECKD3A331KBP	C 330PF, K, 1KV	1	
C859	ECA1HM222	E 2200UF, 50V	1	
C860	ECKD2H471KB2	C 470PF, K,500V	1	
C861	ECA1HM102	E 1000UF, 50V	1	
C862	ECA1EM222	E 2200UF, 25V	1	
C863,64	ECKD3A472KBP	C 4700PF, K, 1KV	2	TX-51P800X,TX-43P800X
C865,66	ECA2WHG4R7	E 4.7UF, 450V	2	TX-51P800X,TX-43P800X
C867	ECQB1H473JF	P 0.047UF, J, 50V	1	TX-51P800X,TX-43P800X
C868	ECQE2A473KF	P 0.047UF, K,250V	1	TX-51P800X,TX-43P800X
C869	ECA0JM331	E 330UF, 6.3V	1	
C870	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C871	ECA1EM471	E 470UF, 25V	1	
C872	EEUFC1C471	E 470UF, 16V	1	
C873	ECA1CHG471	E 470UF, 16V	1	
C874	ECKDNA102MB	C 1000PF, Z,	1	
C876	ECKF1H223ZF	C 0.022UF, Z, 50V	1	
C878	ECQU2A224MN	P 0.22UF, M,250V	1	TX-51P800X,TX-43P800X 
C879	ECKD2H561KB2	C 560PF, K,500V	1	
C880	ECA1EM472	E 4700UF, 25V	1	
C881	ECA2EHG100	OR F2A2E1000013	1	
C883	ECA2EHG100	OR F2A2E1000013	1	
C884	ECQV1H104JM	P 0.1UF, J, 50V	1	
C885	ECKF1H101KB	C 100PF, K, 50V	1	
C886	ECCD3D270KGE	C 27PF, K, 2KV	1	
C888	ECKD3A392KBN	C 3900PF, K, 1KV	1	
C889	ECA1CM222	E 2200UF, 16V	1	
C890	ECKD2H102KB2	C 1000PF, K,500V	1	
C891	ECA1CM471	E 470UF, 16V	1	
C893	ECKD3D681KBP	C 680PF, K, 2KV	1	
C894	ECA1VMH470	E 47UF, 35V	1	
C895	ECA1EEN100B	E 10UF 25V	1	
C901	ECEA1CN100U	E 10UF, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C902	ECA1CM101	E 100UF, 16V	1	
C906	ECA1CM101	E 100UF, 16V	1	
C907	ECCF1H121JC	C 120PF, J, 50V	1	ECCF1H121JC4
C910	ECA1HM100	E 10UF, 50V	1	
C911	ECA1CM101	E 100UF, 16V	1	
C920	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C932	ECA1HM101	E 100UF, 50V	1	
C952	ECA1HM101	E 100UF, 50V	1	
C955	ECQM2103KZ	P 0.01UF, K,200V	1	
C958	ECA2CM100	E 10UF, 160V	1	
C961	ECA2CM100	E 10UF, 160V	1	
C962	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C964	ECA1CM101	E 100UF, 16V	1	
C966	ECA1CM101	E 100UF, 16V	1	
C967	ECA1CM221	E 220UF, 16V	1	
C972	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C973	ECQM2103KZ	P 0.01UF, K,200V	1	
C974	ECA1HM100	E 10UF, 50V	1	
C1001	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C1002	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1004	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1005	ECA1HM100	E 10UF, 50V	1	
C1006	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1007	ECJ2XC1H101J	C 100PF, J, 50V	1	
C1009	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1010,11	ECA1CM101	E 100UF, 16V	2	
C1012,13	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C1014	ECJ2XC1H101J	C 100PF, J, 50V	1	
C1015	ECEA1HN100U	E 10UF, 50V	1	
C1016	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1017	ECA1CM471	E 470UF, 16V	1	
C1018	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1019	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1020	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1040	ECQB1H223JF	P 0.022UF, J, 50V	1	
C1041	ECA1HM470	E 47UF, 50V	1	
C1043	ECKF1H101KB	C 100PF, K, 50V	1	
C1051	ECA1CM101	E 100UF, 16V	1	
C1054	ECCF1H101J	C 100PF, J, 50V	1	
C1101	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1102	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1103-10	ECJ1XF1C104Z	C 0.1UF, Z, 16V	8	
C1115	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1117	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1119-29	ECJ1XF1C104Z	C 0.1UF, Z, 16V	11	
C1130	EEVHB0G221	E 220UF, 4V	1	
C1131,32	ECJ1XC1H220J	C 22PF, J, 50V	2	
C1133-36	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C1137	EEVHB0G221	E 220UF, 4V	1	
C1140	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1142	ECJ1XC1H151J	C 150PF, J, 50V	1	
C1146	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1147	ECA1CM101	E 100UF, 16V	1	
C1148	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1150	ECJ1VF1E104Z	C 0.1UF, Z, 25V	1	
C1153	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1156	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1157,58	ECJ3YB0J335K	C 33UF, J, 25V	2	
C1159,60	EEVHB1C100	E 10UF, 16V	2	
C1161	EEVHB0G221	E 220UF, 4V	1	
C1162	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1163	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1164	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1165	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1166	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1167	EEVHB1C101P	E 100UF, 16V	1	
C1168	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1300	EEVHB0G221	E 220UF, 4V	1	
C1301	EEVHB0G101	E 100UF 4V	1	
C1302	EEVHB0J470	E 47UF, 6.3V	1	
C1303	EEVHB1C470	E 47UF, 16V	1	
C1304	EEVHB0J470	E 47UF, 6.3V	1	
C1305	EEFUD0J101R	100UF	1	
C1308	EEVHB1C470	E 47UF, 16V	1	
C1309-12	EEVHB0J470	E 47UF, 6.3V	4	
C1317	EEVHB0G101	E 100UF 4V	1	
C1318,19	EEVHB1C470	E 47UF, 16V	2	
C1320	EEVHB0G101	E 100UF 4V	1	
C1324,25	EEVHB1C100	E 10UF, 16V	2	
C1329	EEVHB1H1R0	E 1UF, 50V	1	
C1331	EEVHB0J470	E 47UF, 6.3V	1	
C1332,33	EEVHB0G101	E 100UF 4V	2	
C1334	EEVHB0G221	E 220UF, 4V	1	
C1338	EEVHB0G101	E 100UF 4V	1	
C1339	EEVHB0G221	E 220UF, 4V	1	
C1340,41	EEVHB1C100	E 10UF, 16V	2	
C1342-44	EEVHB0G101	E 100UF 4V	3	
C1345	EEVHB0G221	E 220UF, 4V	1	
C1347	EEVHB0G101	E 100UF 4V	1	
C1348	EEVHB0J470	E 47UF, 6.3V	1	
C1350	EEVHB0G101	E 100UF 4V	1	
C1351	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1352,53	EEVHB0G221	E 220UF, 4V	2	
C1354	EEVHB0J470	E 47UF, 6.3V	1	
C1355	EEVHB0G101	E 100UF 4V	1	
C1356	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1357	EEVHB0G101	E 100UF 4V	1	
C1358,59	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1360	EEVHB1C100	E 10UF, 16V	1	
C1361	EEVHB0G101	E 100UF 4V	1	
C1366,67	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1368	ECJ1VB1C563K	C 0.056UF, K, 16V	1	
C1369-72	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C1373,74	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C1376	ECJ2XB1H272K	C 2700PF, K, 50V	1	
C1377,78	EEVHB0G101	E 100UF 4V	2	
C1380	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1381-84	ECJ1VF1A105Z	C 1UF, Z, 10V	4	


Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1385	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1386	EEVHB0J470	E 47UF, 6.3V	1	
C1387	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1388	EEVHB0G101	E 100UF 4V	1	
C1389	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C1390	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1397	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C1402,03	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1404,05	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C1408,09	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1416	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1417	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1418	ECJ1XC1H680J	C 68PF, J, 50V	1	
C1419,20	ECJ1XC1H100D	C 10PF, D, 50V	2	
C1421,22	ECJ1XC1H180J	C 18PF, J, 50V	2	
C1424	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1425	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1426	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1427	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1428	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1429,30	ECJ1XC1H180J	C 18PF, J, 50V	2	
C1431,32	ECJ1XC1H101J	C 100PF, J, 50V	2	
C1433,34	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1437	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1438-40	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1441	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1442	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1444-49	ECJ1VF1A105Z	C 1UF, Z, 10V	6	
C1452,53	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1456,57	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C1464	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1466	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1467	ECJ1XC1H820J	C 82PF, J, 50V	1	
C1468	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1471	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1476,77	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C1478	ECJ1XB1C393K	C 0.039UF, K, 16V	1	
C1479	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1482-85	ECJ1VF1A105Z	C 1UF, Z, 10V	4	
C1486	ECJ1VB1C563K	C 0.056UF, K, 16V	1	
C1489	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1496	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1498	EEVHB0J470	E 47UF, 6.3V	1	
C1499,00	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1501	ECJ1XC1H150J	C 15PF, J, 50V	1	
C1502	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1505	ECJ1XC1H180J	C 18PF, J, 50V	1	
C1506	ECJ1XB0J105K	C 1UF, K, 16V	1	
C1509	ECJ1XB0J105K	C 1UF, K, 16V	1	
C1510	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1511	ECJ1XB0J105K	C 1UF, K, 16V	1	
C1512	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1514-23	ECJ1VF1A105Z	C 1UF, Z, 10V	10	
C1525-27	ECJ1VF1A105Z	C 1UF, Z, 10V	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1528,29	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C1530	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1531	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1533,34	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1535	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1536	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1537,38	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1539,40	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C1541	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1542	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1543	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1545	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1546,47	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1549-53	ECJ1VF1A105Z	C 1UF, Z, 10V	5	
C1554	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1555-57	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1558	ECJ1XC1H221J	C 220PF, J, 50V	1	
C1559	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1561-63	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1565-70	ECJ1VF1A105Z	C 1UF, Z, 10V	6	
C1572-74	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1579	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1581	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1587	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1589	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1590,91	ECJ1XC1H680J	C 68PF, J, 50V	2	
C1592	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1593,94	ECJ1XC1H330J	C 33PF, J, 50V	2	
C1595	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1597	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1598,99	ECJ1VB1H103K	C 0.01UF, K, 50V	2	
C1601	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1603	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1606	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1607	ECJ1XC1H471J	C 470PF, J, 50V	1	
C1609	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1610	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1612,13	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1614	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1616	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1618-23	ECJ1VF1A105Z	C 1UF, Z, 10V	6	
C1625	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1626	EEVHB1H1R0	E 1UF, 50V	1	
C1627	ECJ1VB1C103K	C 0.01UF, K, 16V	1	
C1628-30	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1631	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1632,33	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1634,35	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C1636-40	ECJ1VF1A105Z	C 1UF, Z, 10V	5	
C1641	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1642-51	ECJ1VF1A105Z	C 1UF, Z, 10V	10	
C1652	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1653	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1654	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1655	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1656	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1657	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1658	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1659	EEVHB1H1R0	E 1UF, 50V	1	
C1660-74	ECJ1VF1A105Z	C 1UF, Z, 10V	15	
C1675	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1676	EEVHB0G221	E 220UF, 4V	1	
C1677-79	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1680	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1681	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1682	EEVHB0G101	E 100UF 4V	1	
C1684	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1691-00	ECJ1VF1H103Z	C 0.01UF, Z, 50V	10	
C1705-11	ECJ1VF1H103Z	C 0.01UF, Z, 50V	7	
C1712	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1713	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1717-19	ECJ1VF1H103Z	C 0.01UF, Z, 50V	3	
C1728	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1729	EEVHP1C100R	E 10UF, 16V	1	
C1735	EEVHP1C100R	E 10UF, 16V	1	
C1737	EEVHP1C100R	E 10UF, 16V	1	
C1739	EEVHP1C100R	E 10UF, 16V	1	
C1741	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1742	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1743	EEVHP1C100R	E 10UF, 16V	1	
C1744	EEVHB1C470	E 47UF, 16V	1	
C1747	ECJ1VB1C103K	C 0.01UF, K, 16V	1	
C1749	ECJ1VB1H681K	C 680PF, K, 50V	1	
C1790	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1807-14	ECJ1VF1H103Z	C 0.01UF, Z, 50V	8	
C1815	ECJ1VB1C103K	C 0.01UF, K, 16V	1	
C1816	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1817-20	ECJ1VF1H103Z	C 0.01UF, Z, 50V	4	
C1821	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1823,24	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C1825-28	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C1867,68	EEVHB0G101	E 100UF 4V	2	
C1869	EEVHB0J470	E 47UF, 6.3V	1	
C1870,71	EEVHB1C100	E 10UF, 16V	2	
C1872,73	EEVHB0G101	E 100UF 4V	2	
C1874,75	EEFCD0G560R	56UF,	2	
C1935	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1937	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1938-41	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C1942,43	ECJ1XC1H150J	C 15PF, J, 50V	2	
C1944-47	ECJ1XB0J105K	C 1UF, K, 16V	4	
C1949,50	ECJ1XC1H680J	C 68PF, J, 50V	2	
C1951	EEVHB1A330	E 33UF, 10V	1	
C1954	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C1956	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1958	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1959	EEVHB1C470	E 47UF, 16V	1	
C1960,61	ECJ1XC1H330J	C 33PF, J, 50V	2	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1964	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1965	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C1968-71	ECJ1XB0J105K	C 1UF, K, 16V	4	
C1972	ECJ1XC1H390J	C 39PF, J, 50V	1	
C1975	ECJ1XC1H390J	C 39PF, J, 50V	1	
C1976	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1979-81	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1982	ECJ1XC1H080D	C 8PF, D, 50V	1	
C1983	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1984,85	ECJ1XC1H150J	C 15PF, J, 50V	2	
C1986,87	ECJ1XC1H101J	C 100PF, J, 50V	2	
C1990	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C1991,92	ECJ1XB0J105K	C 1UF, K, 16V	2	
C1994	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C2001-04	ECJ2XB1H102K	C 1000PF, K, 50V	4	
C2007,08	ECEA1HN100U	E 10UF, 50V	2	
C2010	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2011	ECA1CM471	E 470UF, 16V	1	
C2012	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2016	ECA1HM100	E 10UF, 50V	1	
C2017	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2018	ECA1HM100	E 10UF, 50V	1	
C2019	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2021	ECA1HM3R3	E 3.3UF, 50V	1	
C2022,23	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C2024	ECA1HM100	E 10UF, 50V	1	
C2025	ECA1HMR47	E 0.47UF, 50V	1	
C2027	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2029,30	ECJ2XC1H030C	C 3PF, C, 50V	2	
C2031,32	ECA1CM101	E 100UF, 16V	2	
C2033	ECJ2XC1H470J	C 47PF, J, 50V	1	
C2034	ECA1CM101	E 100UF, 16V	1	
C2035	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2036	ECJ2XC1H470J	C 47PF, J, 50V	1	
C2037	ECJ2XC1H070D	C 7PF, D, 50V	1	
C2038,39	ECJ2XC1H560J	C 56PF, J, 50V	2	
C2043	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2045	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
C2046	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2047	ECA1CM221	E 220UF, 16V	1	
C2049	ECA1CM221	E 220UF, 16V	1	
C2050	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2055	ECA1HM220	E 22UF, 50V	1	
C2057	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C2304	ECA1HHG100	E 10UF, 50V	1	
C2305-07	ECA1VM101	E 100UF, 35V	3	
C2308	ECA1HM100	E 10UF, 50V	1	
C2309,10	ECA1VM102	E 1000UF, 35V	2	
C2312	ECQV1H104JM	P 0.1UF, J, 50V	1	
C2313,14	ECQB1H272JF	P 2700PF, J, 50V	2	
C2315	ECA1HM102	E 1000UF, 50V	1	
C2316	ECQV1H104JM	P 0.1UF, J, 50V	1	
C2318	ECA1HHG220	E 22UF, 50V	1	
C2333	ECA50YT47KB	E 47UF, 50V	1	43 inch models

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2335	ECA50YT47KB	E 47UF, 50V	1	43 inch models
C2336	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C2341	ECA1HM220	E 22UF, 50V	1	
C2352	ECEA1HN2R2U	E 2.2UF, 50V	1	
C2363	ECEA1HN4R7U	E 4.7UF, 50V	1	
C2365	ECA1CM471	E 470UF, 16V	1	
C2366	ECEA1HN4R7U	E 4.7UF, 50V	1	
C2367	ECJ2XC1H471J	C 470PF, J, 50V	1	
C2368	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2370	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2371	ECA0JM222	E 2200UF, 6.3V	1	
C2372	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2373,74	ECEA1HNR33U	E 0.33UF, 50V	2	
C2376	ECA1CM221	E 220UF, 16V	1	
C2378	ECA1CM101	E 100UF, 16V	1	
C2380	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C2394	ECJ2XC1H471J	C 470PF, J, 50V	1	
C2396	ECA1VM470	E 47UF, 35V	1	
C2397	ECA1CM221	E 220UF, 16V	1	
C2398	ECA1CM101	E 100UF, 16V	1	
C2399	ECA1HM100	E 10UF, 50V	1	
C2400	ECA1CM471	E 470UF, 16V	1	
C2701	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2702	ECA0JM222	E 2200UF, 6.3V	1	
C2703	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2704	ECA1CM471	E 470UF, 16V	1	
C2705	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2706	ECA0JM222	E 2200UF, 6.3V	1	
C2707,08	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C2709	ECA1CM471	E 470UF, 16V	1	
C2710	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2711	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2712	ECA1CM471	E 470UF, 16V	1	
C2713	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2714	ECA1VM471	E 470UF, 35V	1	
C2715	ECA1CM101	E 100UF, 16V	1	
C2716	ECA1CM471	E 470UF, 16V	1	
C3001,02	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3003-05	ECEA1HN100U	E 10UF, 50V	3	
C3006-11	ECJ2VF1C104Z	C 0.1UF, Z, 16V	6	
C3012	ECA1CM471	E 470UF, 16V	1	
C3013	ECJ3YB0J335K	C 33UF, J, 25V	1	
C3014	ECA1CM101	E 100UF, 16V	1	
C3015	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3017	ECEA1CN101U	E 100UF, 16V	1	
C3018	ECA1CM471	E 470UF, 16V	1	
C3019	ECA1VM470	E 47UF, 35V	1	
C3020-22	ECJ2VF1C104Z	C 0.1UF, Z, 16V	3	
C3023	ECA1CM101	E 100UF, 16V	1	
C3024-26	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C3027-30	ECA1HM100	E 10UF, 50V	4	
C3031	ECA1CM101	E 100UF, 16V	1	
C3032,33	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C3035-37	ECJ2VF1C105Z	C 1UF, Z, 16V	3	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3038	ECEA1CN101U	E 100UF, 16V	1	
C3039,40	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3041	ECA1VM470	E 47UF, 35V	1	
C3042	ECA1CM471	E 470UF, 16V	1	
C3045-51	ECJ2VF1C105Z	C 1UF, Z, 16V	7	
C3053-61	ECJ2VF1C105Z	C 1UF, Z, 16V	9	
C3062,63	ECJ2XC1H561J	C 560PF, J, 50V	2	
C3064	ECA1CM471	E 470UF, 16V	1	
C3067-72	ECJ2XC1H561J	C 560PF, J, 50V	6	
C3073	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3075	ECEA1CN101U	E 100UF, 16V	1	
C3086,87	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3088	ECA1VM470	E 47UF, 35V	1	
C3089	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3094	ECJ3YB0J335K	C 33UF, J, 25V	1	
C3112,13	ECJ2XB1H562K	C 5600PF, K, 50V	2	
C3352	ECA2AM220	E 22UF, 100V	1	
C3353	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C3362	ECA2AM220	E 22UF, 100V	1	
C3363	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C3372	ECA2AM220	E 22UF, 100V	1	
C3373	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C3430	ECA1HM100	E 10UF, 50V	1	
C6715	ECKD3D681KBP	C 680PF, K, 2KV	1	
C6718	ECCD3D220KGE	C 22PF, K, 2KV	1	
C6729,30	ECKDNA471MB	C 470PF, Z,	2	
C6731,32	ECKD3D681KBP	C 680PF, K, 2KV	2	
C7002,03	ECKF1H103ZF	C 0.01UF, Z, 50V	2	
C7004,05	ECA1VHG101	E 100UF, 35V	2	
C7006	ECKR1H681KB5	C 680PF, K, 50V	1	F1B1H681A005
C7007	ECCF1H220JC	C 22PF, J, 50V	1	
C7008	ECKR1H681KB5	C 680PF, K, 50V	1	F1B1H681A005
C7009	ECCF1H220JC	C 22PF, J, 50V	1	
C7010	ECKR1H681KB5	C 680PF, K, 50V	1	F1B1H681A005
C7011	ECCF1H220JC	C 22PF, J, 50V	1	
C7013,14	ECA1VHG101	E 100UF, 35V	2	
C7015,16	ECKF1H103ZF	C 0.01UF, Z, 50V	2	
C7017	ECKR1H681KB5	C 680PF, K, 50V	1	F1B1H681A005
C7018	ECCF1H220JC	C 22PF, J, 50V	1	
C7019	ECKR1H681KB5	C 680PF, K, 50V	1	F1B1H681A005
C7020	ECCF1H220JC	C 22PF, J, 50V	1	
C7021	ECKR1H681KB5	C 680PF, K, 50V	1	F1B1H681A005
C7022	ECCF1H220JC	C 22PF, J, 50V	1	
C7023	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C7090-95	ECKF1H102KB	C 1000PF, K, 50V	6	
C7101	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7102	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7104	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7105-07	ECJ2XC1H101J	C 100PF, J, 50V	3	
C7108-11	EEVHB0J470	E 47UF, 6.3V	4	
C7112,13	ECJ2XC1H561J	C 560PF, J, 50V	2	
C7114	ECJ2VC1H821J	C 820PF, J, 50V	1	
C7115,16	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7117	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	

STT	DESCRIPTION	UNIT PRICE		
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7118	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7119	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7120	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7121,22	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7123-25	ECJ1XB1C104K	C 0.1UF, Z, 16V	3	
C7126-28	EEVHB0J470	E 47UF, 6.3V	3	
C7129,30	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7131-34	ECJ2XC1H561J	C 560PF, J, 50V	4	
C7135	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7136	EEVHB1C470	E 47UF, 16V	1	
C7137-40	ECJ2XC1H101J	C 100PF, J, 50V	4	
C7141	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7142	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7143	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C7145-48	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C7149	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7151	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7152	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7154	EEVHB1C470	E 47UF, 16V	1	
C7155-57	ECJ3YB0J475K	C 47UF, J, 25V	3	
C7158-61	ECJ2XC1H681J	C 680PF, J, 50V	4	
C7162	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7163,64	ECJ2XC1H681J	C 680PF, J, 50V	2	
C7166	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7167	ECJ3YB0J475K	C 47UF, J, 25V	1	
C7168	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7169,70	ECJ3YB0J475K	C 47UF, J, 25V	2	
C7171,72	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7173	ECJ2XB1H823K	C 0.082UF, K, 50V	1	
C7174	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7175	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7176	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7178,79	ECJ2VB1C104K	C 0.1UF, K, 16V	2	
C7180	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7181	EEVHB0G101	E 100UF 4V	1	
C7182	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C7183	EEVHB1C470	E 47UF, 16V	1	
C7184	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7185-96	ECJ1XB1C104K	C 0.1UF, Z, 16V	12	
C7197	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C7301-04	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C7305	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C7306	ECJ2XC1H560J	C 56PF, J, 50V	1	
C7307	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7308	ECJ2XC1H560J	C 56PF, J, 50V	1	
C7309	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7310	ECJ2XC1H560J	C 56PF, J, 50V	1	
C7311	ECA1CM101	E 100UF, 16V	1	
C7314	ECA1CM101	E 100UF, 16V	1	
C7315	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7316	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C7317	ECJ2XC1H221J	C 220PF, J, 50V	1	
C7709	ECJ2XC1H181J	C 180PF, J, 50V	1	
C7710,11	ECJ2XC1H271J	C 270PF, J, 50V	2	


Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7712	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C7713	ECA1EM471	E 470UF, 25V	1	
C7714	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7715	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7716	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7717	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7718	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7719-21	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C7725	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C7726	ECA1EM471	E 470UF, 25V	1	
C9601	ECA1VMH470	E 47UF, 35V	1	
C9602	ECKF1H101KB	C 100PF, K, 50V	1	
C9603	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C9604	ECA1HM220	E 22UF, 50V	1	
C9611	ECWH16473JV	P 0.047PF,J,1.6KV	1	
C9612	ECA1CM101	E 100UF, 16V	1	
C9613	ECEA1EN101U	E 100UF, 25V	1	
C9614	ECKF1H471KB	C 470PF, K, 50V	1	
C9615	ECQB1H223JF	P 0.022UF, J, 50V	1	
D001	MA3150H	ZENER DIODE	1	MAZ31500H
D1	TJSF20016	16P CONNECTOR	1	K1KB16A00050
D002	MA3150H	ZENER DIODE	1	MAZ31500H
D2,D3	TJSF20016	16P CONNECTOR	2	K1KB16A00050
D4	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
D5	TJS3A9880	8P CONNECTOR	1	K1KA08A00179
D6	TJSF20016	16P CONNECTOR	1	K1KB16A00050
D8	K1KA06A00180	6P CONNECTOR	1	
D012	MA3056M	ZENER DIODE	1	MAZ30560M
D12	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
D013	MA3056M	ZENER DIODE	1	MAZ30560M
D13-15	TJS3A9650	4P CONNECTOR	3	K1KA04A00194
D21-25	TJS5A9420	8P CONNECTOR	5	K1KB08A00054
D353,54	MA165	DIODE	2	MA2C165
D357	MA165	DIODE	1	MA2C165
D360-63	MA188	DIODE	4	MA2C188
D366	AM01Z	DIODE	1	B0EAKC000002
D367-70	MA188	DIODE	4	MA2C188
D373,74	MA165	DIODE	2	MA2C165
D377	MA165	DIODE	1	MA2C165
D387-90	MA188	DIODE	4	MA2C188
D393,94	MA165	DIODE	2	MA2C165
D397	MA165	DIODE	1	MA2C165
D452	MA165	DIODE	1	MA2C165
D453	EU02	DIODE	1	
D454,55	MA165	DIODE	2	MA2C165
D456	TVSA81004	DIODE	1	B0JAME000009
D457-60	AM01Z	DIODE	4	B0EAKC000002
D461	MA4030H	ZENER DIODE	1	MAZ40300H 
D462	MA723TA	DIODE	1	MAZC72300F
D500,01	D1NL40V70	DIODE	2	B0HALP000002 
D502	MA4150M	ZENER DIODE	1	MAZ41500M
D503	B0KZ00000001	DIODE	1	






Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D504	MA4270M	ZENER DIODE	1	MAZ42700M
D505	MA4030M	ZENER DIODE	1	MAZ40300M
D508,09	MA165	DIODE	2	MA2C165
D510,11	D1NL40V70	DIODE	2	B0HALP000002 
D514	MA4068L	ZENER DIODE	1	MAZ40680L
D519	AU02Z	DIODE	1	B0HAKM000004
D530	MA165	DIODE	1	MA2C165
D551	EU02	DIODE	1	
D701	D1NL40V70	DIODE	1	B0HALP000002 
D702	MA4120M	ZENER DIODE	1	MAZ41200M
D801	D4SB80Z	DIODE	1	B0EBNT000004 
D805	MA2240B	ZENER DIODE	1	MAZ22400B
D807	B3PAA0000153	DIODE	1	
D809	MA2082-A	ZENER DIODE	1	MAZ20820A
D811	MA2082-A	ZENER DIODE	1	MAZ20820A
D813	ERDS2TC0	C 0 OHM, 1/4W	1	
D815	MA4220M	ZENER DIODE	1	MAZ42200M
D816	MA165	DIODE	1	MA2C165
D819-21	ERA22-04	DIODE	3	B0HAGP000001
D822	B0EAKT000023	DIODE	1	TX-51P800X,TX-43P800X
D823	B0EAKT000023	DIODE	1	TX-51P800X,TX-43P800X
D828,29	FML-12S	DIODE	2	
D831	FMGG2CS	DIODE	1	B0HAPV000011
D832	RK34	DIODE	1	B0JANE000006
D851	FML22S	DIODE	1	B0HFRJ000011
D860	FMGG26S	DIODE	1	B0HANR000014
D869,70	MA165	DIODE	2	MA2C165
D871	ERA22-02	DIODE	1	B0HAGM000001
D872	RK34	DIODE	1	B0JANE000006
D875,76	ERZV14D511	VARISTOR	2	
D884	B3PAA0000153	DIODE	1	
D885	MA4056H	ZENER DIODE	1	MAZ40560H
D886	MA165	DIODE	1	MA2C165
D890	EU02	DIODE	1	
D893	ERC13-08	DIODE	1	B0EAKT000022
D894	MA165	DIODE	1	MA2C165
D953	R2KN1	DIODE	1	
D962	MA188	DIODE	1	MA2C188
D1001,02	MA152K	DIODE	2	MA3X152K
D1011	LNG201RFC	DIODE	1	
D1015	B3AEA0000029	DIODE	1	
D1104	MA152K	DIODE	1	MA3X152K
D1300-04	MA152K	DIODE	5	MA3X152K
D1306	MA152K	DIODE	1	MA3X152K
D1307	MA704A	DIODE	1	MA3X704A
D2002	MA3033L	ZENER DIODE	1	MAZ30330L
D2303,04	MA152K	DIODE	2	MA3X152K
D2305	B0BA5R600016	DIODE	1	
D2306	MA152K	DIODE	1	MA3X152K
D2308	MA152K	DIODE	1	MA3X152K
D2310	MA3360M	ZENER DIODE	1	MAZ33600M
D2312	MA3360M	ZENER DIODE	1	MAZ33600M

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D2315	MA152K	DIODE	1	MA3X152K
D3003	MA3091L	ZENER DIODE	1	
D3004	MA3110L	ZENER DIODE	1	
D3205,06	MA165	DIODE	2	MA2C165
D3351,52	MA165	DIODE	2	MA2C165
D3361,62	MA165	DIODE	2	MA2C165
D3371,72	MA165	DIODE	2	MA2C165
D3410	MA165	DIODE	1	MA2C165
D6705	EG01C	DIODE	1	B0HAGV000001
D6710	MA2082-A	ZENER DIODE	1	MAZ20820A
D6712	ERC13-08	DIODE	1	B0EAKT000022
D6717,18	ERC13-08	DIODE	2	B0EAKT000022
D7101	MA157A	DIODE	1	MA3X157A
D7707	MA152	DIODE	1	
D7708	MA152K	DIODE	1	MA3X152K
D7709	MA152	DIODE	1	
D7710,11	MA4150H	ZENER DIODE	2	MAZ41500H
D9350,51	MA3051M	ZENER DIODE	2	MAZ30510M
D9601	MA4075H	ZENER DIODE	1	MAZ40750H
D9602	RP1H	DIODE	1	B0HACW000001
D9603,04	MA4030H	ZENER DIODE	2	MAZ40300H 
D9605	MA29B	DIODE	1	
D9606	MA165	DIODE	1	MA2C165
D9607	MA4062L	ZENER DIODE	1	MAZ40620L
DC1-C3	K1KB10B00042	10P CONNECTOR	3	
DL1301-06	ELKE103FA	NOISE FILTER	6	
DL1308,09	TLK20LFA223M	EMI FILTER	2	J0HABB000003
DL1310	TLK20LFA103M	EMI FILTER	1	J0HABB000009
DL1318	TLK20LFA103M	EMI FILTER	1	J0HABB000009
DL1323,24	TLK20LFA223M	EMI FILTER	2	J0HABB000003
DL1326-31	TLK20LFA223M	EMI FILTER	6	J0HABB000003
DL1333	TLK20LFA223M	EMI FILTER	1	J0HABB000003
DL1334	TLK20LFA103M	EMI FILTER	1	J0HABB000009
DL1337,38	TLK20LFA103M	EMI FILTER	2	J0HABB000009
DL1339-41	TLK20LFA224M	EMI FILTER	3	J0HABB000004
DL1343-45	TLK20LFA224M	EMI FILTER	3	J0HABB000004
DL1349	TLK20LFA224M	EMI FILTER	1	J0HABB000004
F801	XBA2C50TR0	FUSE 250V 5A	1	K5D502BK0003 
F801-1,-2	EYF-52BC	FUSE HOLDER	2	
G1	TJS1A8180	12P CONNECTOR	1	K1KA12B00041
G2	TJS1A8110	TELEPHON JACK (5P)	1	K1KA05B00047
G3	TJS1A8080	2P CONNECTOR	1	K1KA02B00044
H1	TJSF25135	35P CONNECTOR	1	K1KA35B00002
H2	TJS1A8160	PHONO PIN (10P)	1	K1KA10B00066
H5	TJS1A8090	PHONO PIN (3P)	1	K1KA03B00045
IC451	LA78045	LINEAR IC	1	C1AA00000521
IC751	AN6914	LINEAR IC *	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC801	STRF6656LF53	LINEAR IC	1	C5HABZZ00014
IC802	STR83145LF55	LINEAR IC	1	TX-51P800X,TX-43P800X
IC808	SE139N	LINEAR IC *	1	
IC810	PQ1CG21H2RZ	INTEGRATED CIRCUIT	1	C0DACMG00001
IC831	C0DAAZH00009	PQ1CG3032RZ	1	
IC881	MIP0254SPSCF	INTEGRATED CIRCUIT	1	
IC1001	S-80843ALY-Z	LINEAR IC *	1	C0EAH0000067
IC1002	PST9128NR	IC (LOGIC)	1	C0EBE0000066
IC1004	M62392FP	IC	1	C0FBBD000083
IC1005	C0CACBF00001	IC	1	
IC1006	C0CACAG00001	IC	1	
IC1101	C2CBYF000028	IC	1	
IC1102	TVRJ935	IC	1	C3FBMD000050
IC1103	C0JBAB000591	IC	1	
IC1104	TVRJ934	IC	1	C3EBHC000020
IC1106	C3ABPG000102	IC	1	
IC1107	C0JBAZ001839	IC	1	
IC1108	C0JBAE000231	IC	1	
IC1109	AN78L05	LINEAR IC	1	
IC1301	C1AB00001826	IC	1	
IC1302	C1AB00001703	IC	1	
IC1304	C1AB00001707	IC	1	
IC1305	M52055FP	LINEAR IC	1	C1AB00000734
IC1306	MM1065ZMR	LINEAR IC	1	C0CBABB00029
IC1308	C3ABPJ000017	IC	1	
IC1309	AN15935A	IC	1	
IC1311	C0CBCAD00006	IC	1	
IC1312	NJM2904M	LINEAR IC	1	C0ABBA000021
IC1313	TC7WU04FU	IC	1	C0JBAB0000339
IC1315	MM1065ZMR	LINEAR IC	1	C0CBABB00029
IC1319	C0CBCAD00006	IC	1	
IC1320	C0JBAM000095	IC	1	
IC1321	C3ABPJ000048	IC	1	
IC1322	C0CBCAD00006	IC	1	
IC1324	C0CBCAD00006	IC	1	
IC1331	C3ABPJ000048	IC	1	
IC1332,33	C0CBCBD00006	IC	2	
IC1334	C0CBCBD00005	IC	1	
IC1337	NJM2903M	INTEGRATED CIRCUIT	1	C0BBBA000019
IC1341,42	C0DBEZG00004	IC	2	
IC1350	C1AB00001827	IC	1	
IC1351	C0CBCAD00006	IC	1	
IC1855,56	TC7S66F	MOS IC (CMOS LOGIC) *	2	
IC1857	C0FBAF000040	IC	1	
IC1858	C0CBCBD00006	IC	1	
IC2001	AN78L08	LINEAR IC *	1	
IC2002	C1AB00001871	IC	1	51 inch models
IC2002	C1AB00001755	IC	1	43 inch models
IC2003	AN78M05	LINEAR IC	1	
IC2301	C1AA00000664	IC	1	
IC2305	AN7108	LINEAR IC	1	
IC2702	C0CACAG00001	IC	1	
IC2703	AN7705F	LINEAR IC	1	
IC2704	AN78M09	LINEAR IC *	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC3001	M52055FP	LINEAR IC	1	C1AB00000734
IC3002	AN78L09	LINEAR IC *	1	
IC3003	CXA2069Q	LINEAR IC	1	C1AB00000459
IC3004,05	C0ZBZ0000451	IC	2	
IC7001,02	C5AA00000196	IC	2	
IC7101	AN78L05M	LINEAR IC	1	
IC7102	C0CBCBD00006	IC	1	
IC7103	C0JBAB000003	IC	1	
IC7104	C0FBBH000047	IC	1	
IC7105,06	TL084CNS	IC	2	C0Aafb000011
IC7107	C1AB00001812	IC	1	
IC7108	AN78L12M	LINEAR IC *	1	
IC7109	AN79L12M	IC	1	
IC7110	CXA1875AM	LINEAR IC	1	C0FBBD000017
IC7301	TVRJ936	IC	1	C3Ebjc000037
IC7302	BA7603F	IC	1	
IC7702	CXA1315M	LINEAR IC	1	C1AB00000440
IC7703	AN6912S	IC	1	
IC9601	AN6562	LINEAR IC *	1	
JK351	TJSC00700	CRT SOCKET	1	K3B10CA00006 ⚠
JK371	TJSC00700	CRT SOCKET	1	K3B10CA00006 ⚠
JK391	TJSC00700	CRT SOCKET	1	K3B10CA00006 ⚠
JK801	TJC6137	EARTH LUG	1	
JK3201	TJB4G637	TERMNAL	1	
JK3401	TJB0A639	TERMINAL	1	
JS12	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS17	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS7102,03	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
JS7106	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS7108	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JSA3	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JSA4	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSA21	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSA23	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSA28-30	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
JSDG007	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JSDG011-13	ERJ6GEYJ101	M 100 OHM,J,1/10W	3	
JSDG014-17	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
JSDG019-22	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
JSDG035	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JSDG042	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JSDG046-48	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
JSDG051,52	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
JSDG058	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JSDG064	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSDG068-94	ERJ3GEY0R00	M 0 OHM, 1/16W	27	
JSDG096-03	ERJ3GEY0R00	M 0 OHM, 1/16W	8	
JSDG110	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSDG117	ERJ3GEY0R00	M 0 OHM, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
JSDG122-24	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
JSU6	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
K1	TJS169690	4P CONNECTOR	1	K1KA04A00005
K2	K1KA05A00139	5P CONNECTOR	1	
KA1	TJS1A8080	2P CONNECTOR	1	K1KA02B00044
L003	EXCELD35C	BEAD CHOKE	1	
L005	EXCELD35C	BEAD CHOKE	1	
L006	ELJNC15NJF	CHIP COIL	1	
L007,08	ELJNC39NKB	CHIP COIL	2	
L009,10	EXCELD35C	BEAD CHOKE	2	
L351	ELEBD101KA	PEAKING COIL	1	
L352	ELESE100JA	PEAKING COIL	1	
L353	ELESE1R0JA	PEAKING COIL	1	
L354	ELESN6R8JA	PEAKING COIL	1	
L371	ELEBD101KA	PEAKING COIL	1	
L372	ELESE100JA	PEAKING COIL	1	
L373	ELESE4R7KA	PEAKING COIL	1	
L374	ELESN6R8JA	PEAKING COIL	1	
L391	ELEBD101KA	PEAKING COIL	1	
L392	ELESE150JA	PEAKING COIL	1	
L393	ELESN6R8JA	PEAKING COIL	1	
L394	ELESE100JA	PEAKING COIL	1	
L452,53	EXCELD35C	BEAD CHOKE	2	
L503	EXCELSA35	BEAD CHOKE	1	
L505	EXCELSA24	BEAD CHOKE	1	
L506,07	EXCELD35C	BEAD CHOKE	2	
L508	EXCELSA24	BEAD CHOKE	1	
L531	EXCELD35C	BEAD CHOKE	1	
L555	ELH5L718	HORIZONTAL COIL	1	
L701	TALFP15B222K	INDUCTION COIL	1	G0A222DA0017
L702	ELC18B151G	CHOKE COIL	1	
L703	EXCELSA35	BEAD CHOKE	1	
L741	ELEIE101KA	CHOKE COIL	1	ELEKE101KA
L815,16	EXCELSA39	BEAD CHOKE	2	
L818	EXCELSA35	BEAD CHOKE	1	
L820	EXCELSA24	BEAD CHOKE	1	
L822	EXCELD35C	BEAD CHOKE	1	
L827,28	TALL08N220KA	INDUCTION COIL	2	G0C220K00013
L830	EXCELSA35	BEAD CHOKE	1	
L839	EXCELD35C	BEAD CHOKE	1	
L841	TALFP15B560K	CHOKE COIL	1	G0A560GA0001
L843-45	EXCELD35C	BEAD CHOKE	3	
L851	EXCELSA35	BEAD CHOKE	1	
L857	EXCELSA35	BEAD CHOKE	1	
L861	TLUADTB470K	INDUCTION COIL	1	G0A470GA0017
L862	G0A101GA0017	CHOKE COIL	1	
L865	EXCELSA35	BEAD CHOKE	1	
L870	ELF24V030A	LINE FILTER	1	TX-51P800X,TX-43P800X 


Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L870	ELF24V018A	LINE FILTER	1	TX-51P800HM/HQ, TX-43P800HM/HQ/HZ 
L872	ELF24V030A	LINE FILTER	1	TX-51P800X, TX-43P800X 
L872	ELF24V019A	LINE FILTER	1	TX-51P800HM/HQ, TX-43P800HM/HQ/HZ 
L873	ELF24V032B	LINE FILTER	1	TX-51P800X, TX-43P800X 
L873	ELF24V018A	LINE FILTER	1	TX-51P800HM/HQ, TX-43P800HM/HQ/HZ 
L874	EXCELSA35	BEAD CHOKE	1	
L875	TALFP15B221K	INDUCTION COIL	1	G0A221GA0001
L876	TALL08N330KA	INDUCTION COIL	1	G0A330GA0011
L877	EXCELD35C	BEAD CHOKE	1	
L879	EXCELD35C	BEAD CHOKE	1	
L880	EXCELSA35	BEAD CHOKE	1	
L883	TALL08N181KA	CHIP INDUCTOR COIL	1	G0A181EA0008
L884-88	EXCELD35C	BEAD CHOKE	5	
L891-93	G0A150HA0015	PEAKING COIL	3	
L904	TLUABTA560K	PEAKING COIL	1	G0C560K00004
L951	EXCELSA35	BEAD CHOKE	1	
L953,54	EXCELSA35	BEAD CHOKE	2	
L956	EXCELSA35	BEAD CHOKE	1	
L1052	EXCELSA35	BEAD CHOKE	1	
L1103,04	TALC325T4R7M	CHIP INDUCTOR COIL	2	G1C4R7MA0063
L1107-10	TALC325T4R7M	CHIP INDUCTOR COIL	4	G1C4R7MA0063
L1115	TALC325T3R3M	CHIP INDUCTOR COIL	1	G1C3R3MA0063
L1116	TALC325T4R7M	CHIP INDUCTOR COIL	1	G1C4R7MA0063
L1309-16	TALC325T4R7M	CHIP INDUCTOR COIL	8	G1C4R7MA0063
L1317,18	TALC168T3R3K	CHIP INDUCTOR COIL	2	G1C3R3K00007
L1319,20	TALC168T6R8K	CHIP INDUCTOR COIL	2	G1C6R8K00005
L1323,24	TALC325T4R7M	CHIP INDUCTOR COIL	2	G1C4R7MA0063
L1327	TALC325T4R7M	CHIP INDUCTOR COIL	1	G1C4R7MA0063
L1328	G1C100KA0008	INDUCTOR COIL	1	
L1329	TALC325T4R7M	CHIP INDUCTOR COIL	1	G1C4R7MA0063
L1330	G1C100KA0008	INDUCTOR COIL	1	
L1331	TALC325T4R7M	CHIP INDUCTOR COIL	1	G1C4R7MA0063
L1333-42	TALC325T4R7M	CHIP INDUCTOR COIL	10	G1C4R7MA0063
L1343	G1C100KA0008	INDUCTOR COIL	1	
L1350	J0JGC0000021	CHIP INDUCTOR COIL	1	
L1352	G1C100KA0008	INDUCTOR COIL	1	
L1353	TALC325T4R7M	CHIP INDUCTOR COIL	1	G1C4R7MA0063
L1360-63	J0JGC0000021	CHIP INDUCTOR COIL	4	
L1364,65	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
L1366,67	J0JGC0000021	CHIP INDUCTOR COIL	2	
L1650-52	J0JGC0000021	CHIP INDUCTOR COIL	3	
L1653	G1C100KA0008	INDUCTOR COIL	1	
L1654	TALC325T4R7M	CHIP INDUCTOR COIL	1	G1C4R7MA0063
L1655	G1C100KA0008	INDUCTOR COIL	1	
L1801,02	G1C100KA0008	INDUCTOR COIL	2	
L1804-06	G1C100KA0008	INDUCTOR COIL	3	
L1852	TALC168T2R2K	CHIP INDUCTOR COIL	1	G1C2R2K00006
L1853,54	TALC168T100K	CHIP INDUCTOR COIL	2	G1C100KA0009
L1857	TALC168T5R6K	CHIP INDUCTOR COIL	1	G1C5R6K00007
L1858	ERJ3GEY0R00	M 0 OHM, 1/16W	1	


Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L1859-61	TALC168T1R0K	CHIP INDUCTOR COIL	3	G1C1R0K00005
L1862,63	TALC168T5R6K	CHIP INDUCTOR COIL	2	G1C5R6K00007
L1864-66	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
L2001,02	ELESE4R7KA	PEAKING COIL	2	
L2003	EXCELD35C	BEAD CHOKE	1	
L2004	EXCELSA39	BEAD CHOKE	1	
L2005	ELESN560KA	PEAKING COIL	1	
L2006	ELESE6R8KA	PEAKING COIL	1	
L2013	EXCELD35C	BEAD CHOKE	1	
L2017-21	EXCELSA35	BEAD CHOKE	5	
L2022	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
L2023	TSK1032	BEAD CHOKE	1	J0JCC0000100
L2026	EXCELSA39	BEAD CHOKE	1	
L2027	EXCELSA35	BEAD CHOKE	1	
L2028	EXCELSA39	BEAD CHOKE	1	
L2030	EXCELSA35	BEAD CHOKE	1	
L2031	J0JCC0000241	CHIP INDUCTOR	1	
L2032	TSK1032	BEAD CHOKE	1	J0JCC0000100
L2035	J0JCC0000241	CHIP INDUCTOR	1	
L2036	TSK1032	BEAD CHOKE	1	J0JCC0000100
L2038	TSK1032	BEAD CHOKE	1	J0JCC0000100
L2040	TSK1032	BEAD CHOKE	1	J0JCC0000100
L2050	EXCELSA39	BEAD CHOKE	1	
L2051,52	EXCELD35C	BEAD CHOKE	2	
L2053	EXCELSA39	BEAD CHOKE	1	
L2310	EXCELSA35	BEAD CHOKE	1	
L2701	EXCELD35C	BEAD CHOKE	1	
L2702	TALFP15B560K	CHOKE COIL	1	G0A560GA0001
L3002	ELESE4R7JA	PEAKING COIL	1	
L3003,04	EXC3BB221H	BEAD CHOKE	2	
L3007-12	EXC3BB221H	BEAD CHOKE	6	
L6719,20	EXCELD25C	BEAD CHOKE	2	
L7001-06	EXCELSA39	BEAD CHOKE	6	
L7101	ELJPA100KB	CHIP INDUCTOR	1	
L7102	J0JHC0000035	CHIP INDUCTOR	1	
L7301	ELJPA100KB	CHIP INDUCTOR	1	
L7704	ELESE100JA	PEAKING COIL	1	
LB1	TJS3A9900	10P CONNECTOR	1	K1KA10A00218
LB2	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
LC1101-04	TLK212T256AL	EMI FILTER	4	J0HABB0000012
LC1105,06	TLK20LFA223M	EMI FILTER	2	J0HABB0000003
LC1107-09	ELKE103FA	NOISE FILTER	3	
LC1110	TLK20LFA103M	EMI FILTER	1	J0HABB0000009
LC1111-13	TLK20LFA223M	EMI FILTER	3	J0HABB0000003
LC1114	TLK20LFA224M	EMI FILTER	1	J0HABB0000004
LC1115-20	TLK20LFA103M	EMI FILTER	6	J0HABB0000009
LC1121-24	TLK20LFA224M	EMI FILTER	4	J0HABB0000004
LC1125-46	TLK20LFA103M	EMI FILTER	22	J0HABB0000009
LC1147	ELKE103FA	NOISE FILTER	1	
LC1151-53	TLK212T256AL	EMI FILTER	3	J0HABB0000012
LG1	TJS3A9680	7P CONNECTOR	1	K1KA07A00095

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LG2	TJS3A9880	8P CONNECTOR	1	K1KA08A00179
LG3	TJS3A9910	11P CONNECTOR	1	K1KA11A00059
LG4	TJS3A9900	10P CONNECTOR	1	K1KA10A00218
LG5-G7	TJS3A9640	3P CONNECTOR	3	K1KA03A00171
LR1	TJS3A9910	11P CONNECTOR	1	K1KA11A00059
LR2	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
P2	TJS169700	5P CONNECTOR	1	K1KA05A00090
P4	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
P11-15	TJS3A9140	CONNECTOR	5	K1KA08B00121
Q001	2SB709A	TRANSISTOR	1	2SB0709A
Q353	2SC3942	TRANSISTOR	1	
Q354	2SC3790E	TRANSISTOR	1	B1BAAN000024
Q355,56	2SA1480	TRANSISTOR	2	
Q373	2SC3942	TRANSISTOR	1	
Q374	2SC3790E	TRANSISTOR	1	B1BAAN000024
Q375,76	2SA1480	TRANSISTOR	2	
Q393	2SC3942	TRANSISTOR	1	
Q394	2SC3790E	TRANSISTOR	1	B1BAAN000024
Q395,96	2SA1480	TRANSISTOR	2	
Q451	2SC3311A	TRANSISTOR	1	2SC3311AW
Q501	2SK2962	FET	1	
Q551	2SC5686000RK	TRANSISTOR	1	
Q552-54	2SC1473	TRANSISTOR	3	2SC14730E
Q701	2SK2538000LB	FET	1	
Q805	2SK2123000LB	FET	1	
Q849	2SA19610Q0HW	TRANSISTOR	1	
Q852	2SC3311A	TRANSISTOR	1	2SC3311AW
Q854	2SC3311A	TRANSISTOR	1	2SC3311AW
Q902,03	2SC3311A	TRANSISTOR	2	2SC3311AW
Q907	2SC3311A	TRANSISTOR	1	2SC3311AW
Q908	2SC1318A	TRANSISTOR	1	2SC1318AW
Q951	2SA720-R	TRANSISTOR	1	
Q952,53	2SC1318A	TRANSISTOR	2	2SC1318AW
Q954	2SA720-R	TRANSISTOR	1	
Q955	2SA1535A	TRANSISTOR	1	
Q956	2SC3944A	TRANSISTOR	1	
Q961	2SA720A	TRANSISTOR	1	
Q962	2SC1318A	TRANSISTOR	1	2SC1318AW
Q1001,02	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q1003	2SC3311A	TRANSISTOR	1	2SC3311AW
Q1004	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1006	2SB709A	TRANSISTOR	1	2SB0709A
Q1007	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1020	2SB709A	TRANSISTOR	1	2SB0709A
Q1050	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1112	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1125	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1301	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1305	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1310-12	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q1315,16	2SD601A-R	TRANSISTOR	2	2SD0601AR

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q1319-21	2SC2412K	TRANSISTOR	3	
Q1323,24	2SD0601A	TRANSISTOR	2	
Q1325,26	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q1340	2SB709A	TRANSISTOR	1	2SB0709A
Q1342,43	2SB709A	TRANSISTOR	2	2SB0709A
Q1345,46	2SB709A	TRANSISTOR	2	2SB0709A
Q1350	2SB709A	TRANSISTOR	1	2SB0709A
Q1354,55	2SB709A	TRANSISTOR	2	2SB0709A
Q1359	2SB709A	TRANSISTOR	1	2SB0709A
Q1363-65	2SB709A	TRANSISTOR	3	2SB0709A
Q1368	2SD601A	TRANSISTOR	1	2SD0601A
Q1832-36	2SD601A	TRANSISTOR	5	2SD0601A
Q1837	2SD1030	TRANSISTOR	1	
Q1838	XN6501	TRANSISTOR	1	XN06501
Q1839,40	2SB709A	TRANSISTOR	2	2SB0709A
Q1841-48	2SD601A	TRANSISTOR	8	2SD0601A
Q1849,50	2SD1030	TRANSISTOR	2	
Q1851-54	2SB709A	TRANSISTOR	4	2SB0709A
Q1855	XN6501	TRANSISTOR	1	XN06501
Q1856	UN2215	TRANSISTOR	1	UNR2215
Q1857	2SD1030	TRANSISTOR	1	
Q1858,59	2SB709A	TRANSISTOR	2	2SB0709A
Q2001-04	2SB709A	TRANSISTOR	4	2SB0709A
Q2006,07	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q2009	2SB709A	TRANSISTOR	1	2SB0709A
Q2010	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q2011	2SB709A	TRANSISTOR	1	2SB0709A
Q2013	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q2301	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q2303	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q2305	2SB709A	TRANSISTOR	1	2SB0709A
Q2307	2SB709A	TRANSISTOR	1	2SB0709A
Q2310-14	2SD601A-R	TRANSISTOR	5	2SD0601AR
Q2315	2SB709A	TRANSISTOR	1	2SB0709A
Q2316	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q3001-15	2SD601A-R	TRANSISTOR	15	2SD0601AR
Q3016	2SB709A	TRANSISTOR	1	2SB0709A
Q3017,18	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q3351	2SB1030A	TRANSISTOR	1	
Q3361	2SB1030A	TRANSISTOR	1	
Q3371	2SB1030A	TRANSISTOR	1	
Q3402	2SC3311A	TRANSISTOR	1	2SC3311AW
Q7003	2SC3311A	TRANSISTOR	1	2SC3311AW
Q7301	XN1501TX	TRANSISTOR	1	XN0150100L
Q7701-03	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q7704-06	2SB709A	TRANSISTOR	3	2SB0709A
Q7707-09	2SC3526H	TRANSISTOR	3	
Q7710,11	2SB709A	TRANSISTOR	2	2SB0709A
Q7712	2SC3757-R	TRANSISTOR	1	2SC37570R
Q7713,14	2SB709A	TRANSISTOR	2	2SB0709A
Q7715	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q7716	2SB709A	TRANSISTOR	1	2SB0709A
Q7717-19	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q7720-25	2SB709A	TRANSISTOR	6	2SB0709A

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q9301	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q9601	2SA1309A	TRANSISTOR	1	2SA13090WA
Q9602	2SC4635	TRANSISTOR	1	
Q9603	2SC3311A	TRANSISTOR	1	2SC3311AW
R001,02	ERJ3GEYJ683	M 68KOHM,J,1/16W	2	
R003	EXC3BB221H	BEAD CHOKE	1	
R004	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R005	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R355	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R357	ERG7ZJ272	M 2.7KOHM, J, 7W	1	
R358	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R359	ERDS2TJ563	C 56KOHM, J,1/4W	1	
R362	ERC12GK331	S 330 OHM, 1/2W	1	
R365	ERDS2TJ821	C 820 OHM, J,1/4W	1	
R366,67	ERG12SJ101P	M 100 OHM, J,1/2W	2	
R368,69	ERDS1FJ330	C 33 OHM, J,1/2W	2	
R372	ERC12GK331	S 330 OHM, 1/2W	1	
R373	ERG7ZJ272	M 2.7KOHM, J, 7W	1	
R375	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R377	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R378	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R379	ERDS2TJ563	C 56KOHM, J,1/4W	1	
R382	ERC12GK331	S 330 OHM, 1/2W	1	
R383	ERG7ZJ272	M 2.7KOHM, J, 7W	1	
R385	ERDS2TJ821	C 820 OHM, J,1/4W	1	
R386,87	ERG12SJ101P	M 100 OHM, J,1/2W	2	
R388,89	ERDS1FJ330	C 33 OHM, J,1/2W	2	
R390	ERDS2TJ821	C 820 OHM, J,1/4W	1	
R391,92	ERG12SJ101P	M 100 OHM, J,1/2W	2	
R393,94	ERDS1FJ330	C 33 OHM, J,1/2W	2	
R395	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R398	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R399	ERDS2TJ563	C 56KOHM, J,1/4W	1	
R451,52	ERX12SJ3R3	M 3.3 OHM, J,1/2W	2	
R453	ERDS2TJ393	C 39KOHM, J,1/4W	1	
R454	ERDS2TJ123	C 12KOHM, J,1/4W	1	
R455	ERG3FJ331H	M 330 OHM, J, 3W	1	
R456	ER0S2CKF3921	M3.92KOHM, F,1/4W	1	
R457	ERJ3EKF2431	M24.3KOHM, 1/16W	1	
R458	ERJ6ENF3481	M3.48KOHM, 1/10W	1	
R460	ERDS1FJ1R0	C 1 OHM, J,1/2W	1	
R461	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R462	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R463	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R464	ERJ6ENF3902	M 39KOHM, 1/10W	1	
R465	ERDS2TJ272	C 2.7KOHM, J,1/4W	1	
R466	ERDS2TJ472	C 4.7KOHM, J,1/4W	1	
R467	ERDS2TC0	C 0 OHM, 1/4W	1	
R468	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R469,70	ERDS2TJ103	C 10KOHM, J,1/4W	2	
R472-74	ERDS2TJ331	C 330 OHM, J,1/4W	3	
R475	ER0S2CKF3011	M3.01KOHM, F,1/4W	1	
R476	ERDS2TJ103	C 10KOHM, J,1/4W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R477	ERDS2TJ333	C 33KOHM, J,1/4W	1	
R478	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R501	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R502	ERDS2TJ680	C 68 OHM, J,1/4W	1	
R503	ERG3FJS820D	M 82 OHM, J, 3W	1	
R504	ERG1SJ102P	M 1KOHM, J, 1W	1	
R505	ERX2FZJR18H	M0.18 OHM, J, 2W	1	
R506	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R507	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R508	ERG1SJ150P	M 15 OHM, J, 1W	1	
R510	ERDS1FJ1R5	C 1.5 OHM, J,1/2W	1	
R516	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R517	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R519	ER050CKF4532	M4.53KOHM, F,1/2W	1	ERO50CKF4532
R520	ER0S2CKF2702	M 27KOHM, F,1/4W	1	EROS2CKF2702
R521	ER0S2CKF6041	M6.04KOHM, F,1/4W	1	EROS2CKF6041
R522	ER0S2CHF1302	M 13KOHM, F,1/4W	1	
R524	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R525	TSF19632	FUSE	1	K5Y632Z00001
R526	ERQ12HJ330P	F 33 OHM, J,1/2W	1	
R527	ER0S2CKF2552	M25.5KOHM, F,1/4W	1	
R528	ER0S2CKF8061	M8.06KOHM, F,1/4W	1	
R530	ERDS2TJ471	C 470 OHM, J,1/4W	1	
R531	ERDS2TJ275	C 2.7MOHM, J,1/4W	1	
R532	ERDS2TJ224	C 220KOHM, J,1/4W	1	
R533	EVMAASA00B34	CONTROL 30KOHMB	1	
R534	ERDS2TJ333	C 33KOHM, J,1/4W	1	
R540	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R652,53	ERJ6GEYJ331	M 330 OHM,J,1/10W	2	
R655-57	ERJ6GEYJ181	M 180 OHM,J,1/10W	3	
R658	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R701	ERDS1FJ680	C 68 OHM, J,1/2W	1	
R703	ERF5AK4R7	W 4.7 OHM, K, 5W	1	
R761	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R762	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R763	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R764	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R801	ERF10ZK4R7	W 4.7 OHM, Z, 10W	1	
R803,04	ERG2FJS393D	M 39K OHM, J, 2W	2	
R806	ERX12SJR12P	M 12 OHM, J,1/2W	1	
R810	ERX12SJR12P	M 12 OHM, J,1/2W	1	
R815	ERD75TAJ825	C 8.2MOHM, J,3/4W	1	
R819	ERDS2TJ681	C 680 OHM, J,1/4W	1	
R820	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R821	ERDS2TJ680	C 68 OHM, J,1/4W	1	
R822	ERDS2TJ820	C 82 OHM, J,1/4W	1	
R831	ERF2AK5R6	W 5.6 OHM, K, 2W	1	
R832	ERDS1FJ391	C 390 OHM, J,1/2W	1	
R833	ERJ6ENF2151	M2.15KOHM, 1/10W	1	
R834	ERJ6ENF4121	M4.12KOHM, 1/10W	1	
R836,37	ERDS2TJ152	C 1.5KOHM, J,1/4W	2	
R845	ERX1SJR27P	M0.27 OHM, J, 1W	1	
R854	ERDS2TJ221	C 220 OHM, J,1/4W	1	
R855	ER0S2CKF1001	M 1KOHM, F,1/4W	1	EROS2CKF1001

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R856	ER0S2CKF8661	M8.66KOHM, F,1/4W	1	
R861	ERG3FJS470D	M 47 OHM, J, 3W	1	TX-51P800X,TX-43P800X
R867	ERG3FJ153H	M 15KOHM, J, 3W	1	
R870	ERC12ZGK335	S 3.3MOHM, K,1/2W	1	
R871	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R872	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R873	ERDS1FJ102	C 1KOHM, J,1/2W	1	
R877	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R880	ERDS2TJ183	C 18KOHM, J,1/4W	1	
R881	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R882	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R883	ERG1SJ104P	M 100KOHM, J, 1W	1	
R884	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R885,86	ERX1SJ1R0	M 1.0 OHM, J, 1W	2	
R890	ERDS1FJ102	C 1KOHM, J,1/2W	1	
R891	ERDS1FJ122	C 1.2KOHM, J,1/2W	1	
R901	ERDS1FJ821	C 820 OHM, J,1/2W	1	
R902	ERDS2TJ683	C 68KOHM, J,1/4W	1	
R903	ERDS2TJ153	C 15KOHM, J,1/4W	1	
R904,05	ERDS2TJ472	C 4.7KOHM, J,1/4W	2	
R906	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R907	ERDS2TJ151	C 150 OHM, J,1/4W	1	
R908	ERDS2TJ272	C 2.7KOHM, J,1/4W	1	
R914	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R915	ERDS2TJ182	C 1.8KOHM, J,1/4W	1	
R916	ERDS2TJ391	C 390 OHM, J,1/4W	1	
R917	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R920	ERDS2TJ181	C 180 OHM, J,1/4W	1	
R922,23	ERDS2TJ103	C 10KOHM, J,1/4W	2	
R951	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R952	ERDS1FJ152	C 1.5KOHM, J,1/2W	1	
R953	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R954	ERDS1FJ152	C 1.5KOHM, J,1/2W	1	
R955	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R956	ERDS1FJ152	C 1.5KOHM, J,1/2W	1	
R960	ERQ14AJ100	F 10 OHM, J,1/4W	1	
R964	ERDS2FJ122	C 1.2KOHM, J,1/4W	1	
R965	ERDS2TJ683	C 68KOHM, J,1/4W	1	
R966	ERG1SJ271	M 270 OHM, J, 1W	1	
R967	ERDS2TJ683	C 68KOHM, J,1/4W	1	
R968	ERDS2TJ122	C 1.2KOHM, J,1/4W	1	
R969	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R970,71	ERDS2TJ8R2	C 8.2 OHM, J,1/4W	2	
R972	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R973	ERDS1FJ470	C 47 OHM, J,1/2W	1	
R975-77	ERG1SJ271	M 270 OHM, J, 1W	3	
R978	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R1001	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1002	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R1003	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1004	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1005	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1006	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1007	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	

11001	ENCLOSURE	11001	11001	11001
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1009	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1010	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R1011	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1013	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1014	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1016	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1020	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R1021	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R1022	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1023	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1025	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1026	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1027	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1028,29	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R1035,36	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R1037,38	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1043	ERDS2TJ682	C 6.8KOHM, J,1/4W	1	
R1044	ERDS2TJ123	C 12KOHM, J,1/4W	1	
R1045	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R1046	ERDS2TJ683	C 68KOHM, J,1/4W	1	
R1050	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1051	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1052	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R1053-59	ERJ3GEY0R00	M 0 OHM, 1/16W	7	
R1060 02	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R1060,61	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1069-71	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R1072	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1074	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1075	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1081	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R1082	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R1083,84	ERDS2TJ101	C 100 OHM, J,1/4W	2	
R1085	ERDS2TJ221	C 220 OHM, J,1/4W	1	
R1101,02	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R1103,04	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1105-10	ERJ3GEYJ103	M 10KOHM,J,1/16W	6	
R1111,12	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1113	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1115	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1116	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R1117	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1118-21	ERJ3GEYJ101	M 100 OHM,J,1/16W	4	D0GB101JA002
R1122	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1126	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1127	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1128	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1131	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1132	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R1134	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1143	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1145	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002
R1146	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1147	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1149	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1150,51	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1152	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1153	ERJ3GEYJ563	M 56KOHM,J,1/16W	1	
R1154	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1155	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1156	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1157,58	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1159	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1160	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R1161-63	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R1167	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1169	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1170	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1178	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1180	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R1188-93	ERJ3GEYJ101	M 100 OHM,J,1/16W	6	D0GB101JA002
R1194	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1195	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1196	EXB38V680J	RESISTOR ARRAY	1	
R1202	EXB38V680J	RESISTOR ARRAY	1	
R1205	EXB38V680J	RESISTOR ARRAY	1	
R1209	EXB38V680J	RESISTOR ARRAY	1	
R1212,13	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R1214	EXB38V680J	RESISTOR ARRAY	1	
R1217	EXB38V680J	RESISTOR ARRAY	1	
R1221	EXB38V680J	RESISTOR ARRAY	1	
R1225	EXB38V680J	RESISTOR ARRAY	1	
R1232,33	EXB38V680J	RESISTOR ARRAY	2	
R1236	EXB38V680J	RESISTOR ARRAY	1	
R1249,50	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1255	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1256	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1257	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1258	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1264	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1307	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1309	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1313	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1317	ERJ3EKF3902	M 39KOHM, 1/16W	1	
R1318	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1325	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1350	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1354	ERJ3EKF1132	M11.3KOHM, 1/16W	1	
R1356	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R1359	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R1360	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R1361	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1364	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1365	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R1366-69	ERJ3GEYJ223	M 22KOHM,J,1/16W	4	
R1370,71	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1382	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1383,84	ERJ3GEY0R00	M 0 OHM, 1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1385	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1386	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1387	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1388	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R1389	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1390	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R1391	ERJ3EKF2400	M 240 OHM, 1/16W	1	
R1393	ERJ3EKF2400	M 240 OHM, 1/16W	1	
R1394	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1395	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R1396	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1399,00	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1401	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R1402	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1403	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R1405	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R1406	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1407	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1409	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1410	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R1411	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R1412	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1413	ERJ3EKF2490	M 249 OHM, 1/16W	1	
R1414	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R1415	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R1416	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1417	ERJ3EKF1800	M 180 OHM, 1/16W	1	
R1418	ERJ3EKF43R0	M 43 OHM, 1/16W	1	
R1419	ERJ3EKF1020	M 102 OHM, 1/16W	1	
R1420,21	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R1422	ERJ3EKF47R0	M 47 OHM, 1/16W	1	
R1435	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1439	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1440-42	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R1443	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1446	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1447	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1449	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1450	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1451	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1452	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1453	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1454,55	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1457	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1458	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R1459	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R1460	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1461	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1462	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R1464	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1466	ERJ6ENF6200	M 620 OHM, 1/10W	1	
R1467-70	ERJ3GEYJ333	M 33KOHM,J,1/16W	4	
R1471	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1472	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1473	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R1474	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R1475	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1476	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R1477,78	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1479	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1480	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1481	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1482	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1483	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1484	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1485	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1486	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1487	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1488,89	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1490	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1491	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R1492	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R1493	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1494	ERJ3EKF1500	M 150 OHM, 1/16W	1	
R1495	ERJ3EKF75R0	M 0.75HM, 1/16W	1	
R1496	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R1497	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R1499	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R1500	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1501	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1502,03	ERJ3EKF1401	M 1.4KOHM, 1/16W	2	
R1504	ERJ3EKF75R0	M 0.75HM, 1/16W	1	
R1505	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R1507	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1509	ERJ3EKF1500	M 150 OHM, 1/16W	1	
R1510	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R1511	ERJ3EKF75R0	M 0.75HM, 1/16W	1	
R1512,13	ERJ3EKF1101	M 1.1KOHM, 1/16W	2	
R1514	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R1515	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1516	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1517	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1518	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1519	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1520	ERJ3EKF1500	M 150 OHM, 1/16W	1	
R1521	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1522	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1524	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1525,26	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1528	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1529	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1531	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1533	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1534	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1535	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1536	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1537	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1538	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1540,41	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1544	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1545	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R1547	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1548	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R1551,52	ERJ3GEYJ162	M 1.6KOHM,J,1/16W	2	
R1553	ERJ3GEYJ242	M 2.4KOHM,J,1/16W	1	
R1554	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1556	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1557-59	ERJ3GEYJ121	M 120 OHM,J,1/16W	3	
R1566	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1569	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1570	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002
R1573-76	ERJ3GEYJ471	M 470 OHM,J,1/16W	4	
R1578,79	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1580	ERJ3EKF4701	M 4.7KOHM, 1/16W	1	
R1583	ERJ3EKF4701	M 4.7KOHM, 1/16W	1	
R1588	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1591	ERJ3EKF2202	M 22KOHM, 1/16W	1	
R1592	ERJ3EKF6341	M6.34KOHM, 1/16W	1	
R1601	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1602,03	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1604	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1605	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R1606-08	ERJ3EKF33R0	M 33 OHM, 1/16W	3	
R1609-11	ERJ3EKF1500	M 150 OHM, 1/16W	3	
R1612-14	ERJ3EKF33R0	M 33 OHM, 1/16W	3	
R1615	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R1616	ERJ3GEYJ680	M 68 OHM,J,1/16W	1	ERJ3GEYJ680V
R1617	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1618	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1619,20	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1621	ERJ3GEYJ680	M 68 OHM,J,1/16W	1	ERJ3GEYJ680V
R1622	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1623,24	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R1625	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1626	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R1627	ERJ3EKF1001	M 1KOHM, 1/16W	1	
R1628	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1629	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1630	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1631,32	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1633	ERJ3GEYJ680	M 68 OHM,J,1/16W	1	ERJ3GEYJ680V
R1634	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1635	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1639	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1652,53	EXB38VR000	RESISTOR ARRAY	2	
R1654-61	EXB38V820J	RESISTOR ARRAY	8	
R1665-68	ERJ3GEYJ221	M 220 OHM,J,1/16W	4	
R1669,70	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R1671	EXB38V103J	RESISTOR ARRAY	1	
R1672-79	EXB38V820J	RESISTOR ARRAY	8	
R1680	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1681	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1682	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1686	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1688-91	ERJ6GEYJ471	M 470 OHM,J,1/10W	4	
R1692	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1693,94	ERJ3GEYJ821	M 820 OHM,J,1/16W	2	
R1695,96	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1697,98	ERJ3EKF1500	M 150 OHM, 1/16W	2	
R1700,01	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R1706	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1708	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1710-13	EXB38V221J	RESISTOR ARRAY	4	
R1715,16	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1722	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R1723	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R1724	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1728,29	ERJ3GEYJ151	M 150 OHM,J,1/16W	2	
R1732-34	EXB38VR000	RESISTOR ARRAY	3	
R1735,36	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1737	ERJ3GEYJ242	M 2.4KOHM,J,1/16W	1	
R1739	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1740	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1741	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1850	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1851-53	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R1854,55	ERJ3GEYJ821	M 820 OHM,J,1/16W	2	
R1856	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1857,58	ERJ3GEYJ330	M 33 OHM,J,1/16W	2	
R1859-62	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R1864	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1865-67	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	3	
R1868,69	ERJ3EKF1200	M 120 OHM, 1/16W	2	
R1870,71	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1873,74	ERJ3EKF1800	M 180 OHM, 1/16W	2	
R1875	ERJ3EKF4700	M 470 OHM, 1/16W	1	
R1876-78	ERJ3EKF2700	M 270 OHM, 1/16W	3	
R1879,80	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R1881	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R1882,83	ERJ3EKF6801	M 6.8KOHM, 1/16W	2	
R1884	ERJ3EKF1201	M 1.2KOHM, 1/16W	1	
R1885	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1886	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1887,88	ERJ6GEYJ331	M 330 OHM,J,1/10W	2	
R1890-93	ERJ3GEYJ330	M 33 OHM,J,1/16W	4	
R1894-99	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
R1901	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1903	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1904,05	ERJ3EKF1200	M 120 OHM, 1/16W	2	
R1906,07	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R1910-33	ERJ3GEYJ820	M 82 OHM,J,1/16W	24	
R1934	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1935	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1939,40	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1941	EXB38V820J	RESISTOR ARRAY	1	
R1945	EXB38V820J	RESISTOR ARRAY	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1949	EXB38V820J	RESISTOR ARRAY	1	
R1953	EXB38V820J	RESISTOR ARRAY	1	
R1957	EXB38V820J	RESISTOR ARRAY	1	
R1960	ERJ3GEYJ820	M 82 OHM,J,1/16W	1	
R1961	EXB38V820J	RESISTOR ARRAY	1	
R1962	ERJ3EKF1500	M 150 OHM, 1/16W	1	
R1963-67	ERJ3GEYJ102	M 1KOHM,J,1/16W	5	
R1968,69	ERJ3EKF39R0	M 39 OHM, 1/16W	2	
R1970	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R1971,72	ERJ3EKF4701	M 4.7KOHM, 1/16W	2	
R1973	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1974	ERJ3EKF2201	M 2.2KOHM, 1/16W	1	
R1975	ERJ3EKF7680	M 768 OHM, 1/16W	1	
R1976	ERJ3EKF3300	M 330 OHM, 1/16W	1	
R1977,78	ERJ3EKF1800	M 180 OHM, 1/16W	2	
R1979	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R1980	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R1981	ERJ3GEYJ821	M 820 OHM,J,1/16W	1	
R1982	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1986	ERJ6ENF1621	M1.62KOHM, 1/10W	1	
R1987,88	ERJ6ENF1501	M 1.5KOHM, 1/10W	2	
R1989	ERJ6ENF9100	M 910 OHM, 1/10W	1	
R1995	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R2001,02	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R2004-07	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	4	
R2009,10	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R2012,13	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R2014,15	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R2019,20	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R2021	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R2022	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R2023	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R2024	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2025	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R2026	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R2027	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2029	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R2030	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R2031	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2035	ERJ3GEYF223	M 22KOHM, 1/16W	1	
R2036	ERJ3GEYJ823	M 82KOHM,J,1/16W	1	
R2038	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R2039	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2040,41	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R2045-48	ERJ3GEYJ221	M 220 OHM,J,1/16W	4	
R2052	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2056	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R2057	ERJ3GEYF103	M 10KOHM, 1/16W	1	
R2301	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2303,04	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2307,08	ERD25FJ2R2	C 2.2 OHM, J,1/4W	2	
R2309,10	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2311	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2312	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2315	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R2319	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R2322	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	
R2323	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2324	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2325	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2326	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2327	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2328	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2329	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2330	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R2343	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2344	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2345	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2347	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2348	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2349,50	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R2351	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2353	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2356	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2357	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2358	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R2360,61	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R2362	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2364-66	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R2367	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2369	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2379	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2383,84	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2387	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2389	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2390	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2391	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R2393,94	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R2455	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2483	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2705	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R2706	ERX3FJS150D	M 15 OHM, J, 3W	1	
R3001	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R3002	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R3003	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R3004	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R3005-07	ERJ6GEYJ821	M 820 OHM,J,1/10W	3	
R3008-10	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R3011-13	ERJ6GEYJ821	M 820 OHM,J,1/10W	3	
R3014-16	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R3017,18	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R3019	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R3020	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3021	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3022	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R3023	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R3024	ERJ3EKF2401	M 2.4KOHM, 1/16W	1	
R3025	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	





Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3026	ERJ3EKF1001	M 1KOHM, 1/16W	1	
R3027	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3028,29	ERJ3GEYJ223	M 22KOHM,J,1/16W	2	
R3030	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3031	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3032	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R3033	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R3034	ERJ3EKF2401	M 2.4KOHM, 1/16W	1	
R3035	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3036	ERJ3EKF1001	M 1KOHM, 1/16W	1	
R3037	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3038,39	ERJ3GEYJ821	M 820 OHM,J,1/16W	2	
R3040,41	ERJ3GEYJ223	M 22KOHM,J,1/16W	2	
R3042,43	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3044	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R3048,49	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R3050	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3051-53	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R3054,55	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R3056	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3057-59	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R3060,61	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R3062	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3063-65	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R3066	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3067	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3068,69	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	
R3070	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3071	ERJ8GEYJ681	M 680 OHM, J,1/8W	1	ERJ8GEYJ681V
R3074-79	ERJ3GEYJ223	M 22KOHM,J,1/16W	6	
R3080	ERJ8ENF75R0	M 75 OHM, 1/8W	1	
R3081	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R3082	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R3083,84	ERJ8ENF75R0	M 75 OHM, 1/8W	2	
R3085	ERJ3EKF2401	M 2.4KOHM, 1/16W	1	
R3086	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3087-89	ERJ8ENF75R0	M 75 OHM, 1/8W	3	
R3090	ERJ3EKF1001	M 1KOHM, 1/16W	1	
R3091-93	ERJ8ENF75R0	M 75 OHM, 1/8W	3	
R3095-97	ERJ8ENF75R0	M 75 OHM, 1/8W	3	
R3098	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R3099,00	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R3113-15	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	3	
R3119	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3120	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R3132	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R3133,34	ERJ8ENF75R0	M 75 OHM, 1/8W	2	
R3135	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3136,37	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R3138	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3211	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R3355	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3356	ERDS2TJ822	C 8.2KOHM, J,1/4W	1	
R3357	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3365	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3366	ERDS2TJ822	C 8.2KOHM, J,1/4W	1	
R3367	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3375	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3376	ERDS2TJ822	C 8.2KOHM, J,1/4W	1	
R3377	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3421	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R3422	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R7005-07	ERDS2TJ103	C 10KOHM, J,1/4W	3	
R7010	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R7011	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R7012	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R7013	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R7014	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R7015	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R7016	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R7017	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R7018	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R7019	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R7020	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R7021	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R7024-29	ERDS2TJ222	C 2.2KOHM, J,1/4W	6	
R7030	ERG2FJ121H	M 120 OHM, J, 2W	1	
R7031-33	ERG2FJ820H	M 82 OHM, J, 2W	3	
R7034	ERG2FJ121H	M 120 OHM, J, 2W	1	
R7035	ERG2FJ820H	M 82 OHM, J, 2W	1	
R7036	ERX2FJS2R2D	M 2.2 OHM, J, 2W	1	
R7040	ERX2FJS2R2D	M 2.2 OHM, J, 2W	1	
R7048	ERX2FJS2R2D	M 2.2 OHM, J, 2W	1	
R7052	ERX2FJS2R2D	M 2.2 OHM, J, 2W	1	
R7060	ERX2FJS2R2D	M 2.2 OHM, J, 2W	1	
R7064	ERX2FJS2R2D	M 2.2 OHM, J, 2W	1	
R7080	ERX1SJR39	M0.39 OHM, J, 1W	1	
R7085	ERX1SJR39	M0.39 OHM, J, 1W	1	
R7090-95	ERDS2TJ332	C 3.3KOHM, J,1/4W	6	
R7101-03	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	3	
R7104,05	ERJ6ENF1002	M 10KOHM, 1/10W	2	
R7106-08	ERJ6ENF4702	M 47KOHM, 1/10W	3	
R7109	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R7111	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7112,13	ERJ6GEYJ220	M 22 OHM,J,1/10W	2	
R7114-17	ERJ6ENF4702	M 47KOHM, 1/10W	4	
R7118-21	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	4	
R7122,23	ERJ6GEYJ220	M 22 OHM,J,1/10W	2	
R7124,25	ERJ6GEYJ330	M 33 OHM,J,1/10W	2	
R7126	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R7127	ERJ6ENF6200	M 620 OHM, 1/10W	1	
R7128	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R7129,30	EXB38V820J	RESISTOR ARRAY	2	
R7131	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R7134	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R7135-37	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R7140	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7141	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7142	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7143	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R7144	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7145	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R7146	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7147	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R7148	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7149	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R7150	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7151	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R7152	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7153	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7154	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7155	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R7157,58	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R7160-62	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R7163,64	ERJ6GEYJ330	M 33 OHM,J,1/10W	2	
R7165,66	ERJ6ENF1002	M 10KOHM, 1/10W	2	
R7167	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7168,69	ERJ6ENF1002	M 10KOHM, 1/10W	2	
R7170-72	ERJ6GEYJ330	M 33 OHM,J,1/10W	3	
R7175	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7191	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R7192	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7193	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R7301-03	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R7304	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7305,06	ERJ6GEYJ471	M 470 OHM,J,1/10W	2	
R7307	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7308-11	ERJ6GEYJ221	M 220 OHM,J,1/10W	4	
R7312-14	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	3	
R7701-03	ERJ6GEYJ221	M 220 OHM,J,1/10W	3	
R7705	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7707	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7709	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7716	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7717-19	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R7724-26	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	3	
R7727-29	ERJ6GEYJ221	M 220 OHM,J,1/10W	3	
R7733	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7734,35	ER0S2CKF2000	M 200 OHM, F,1/4W	2	
R7736	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R7737	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7738,39	ER0S2CKF2000	M 200 OHM, F,1/4W	2	
R7740	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R7741	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7742,43	ER0S2CKF2000	M 200 OHM, F,1/4W	2	
R7744	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R7745	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7746-48	ERJ6ENF82R0	M 82 OHM, 1/10W	3	
R7750-52	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R7753	ERJ6ENF3901	M 3.9KOHM, 1/10W	1	
R7754	ERJ6ENF4700	M 470 OHM, 1/10W	1	
R7755	ERJ6ENF2000	M 200 OHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7756	ERJ6ENF1000	M 100 OHM, 1/10W	1	
R7757	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R7758-61	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R7762	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R7763	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7765	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R7766,67	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R7771	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7772	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R7773	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7776-78	ERJ6GEYJ471	M 470 OHM,J,1/10W	3	
R7779	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R7780	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R7781	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R7782	ERJ6ENF56R0	M 56 OHM, 1/10W	1	
R7789	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7790	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R7791	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7792	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R7793	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7794	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R7795-97	ER0S2CKF2000	M 200 OHM, F,1/4W	3	
R7801	ERJ6ENF1800	M 180 OHM, 1/10W	1	
R7802	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R7803	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R7804	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R7805	ERJ6ENF1800	M 180 OHM, 1/10W	1	
R7806	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R7807	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R7808	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R7809	ERJ6ENF1800	M 180 OHM, 1/10W	1	
R7810	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R7811	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R7812	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R9305	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9318	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R9319	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R9320	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R9602	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R9603	ERDS2TJ222	C 2.2KOHM, J,1/4W	1	
R9604-06	ERDS2TJ102	C 1KOHM, J,1/4W	3	
R9607	ERG2FJS222D	M 2.2KOHM, J, 2W	1	
R9608	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R9609	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R9610	ER0S2CKF1501	M1.50KOHM, F,1/4W	1	EROS2CKF1501
R9611-15	ERG2FJS333D	M 33KOHM, J, 2W	5	
R9616	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R9617	ER0S2CKF2801	M2.80KOHM, F,1/4W	1	EROS2CKF2801
R9618	ER0S2CKF2741	M2.74KOHM, F,1/4W	1	
R9619	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R9620	ERDS2TJ221	C 220 OHM, J,1/4W	1	
R9621	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R9622	ERC12GK103	S 10KOHM, K,1/2W	1	
R9623	ERDS2TJ104	C 100KOHM, J,1/4W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9624	ER0S2CKF1500	M 150 OHM, F,1/4W	1	
R9625	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R9626	ERDS2TJ221	C 220 OHM, J,1/4W	1	
R9627	ER0S2CKF2742	M27.4KOHM, F,1/4W	1	
RL801	K6B1ADA00010	RELAY	1	
RL802	TSEH8011	RELAY	1	K6B1AGA00043
RL3401	TSEH8017	SWITCH	1	K6B2CFA00015
RM1001	GP1U282Q	REMOCON RECIEVER	1	B3RAD0000012
RTL	TZTNP020JBV	CIRCUIT BOARD A	1	TX-51P800X/HQ
RTL	TZTNP020JAV	CIRCUIT BOARD A	1	TX-51P800HM
RTL	TZTNP040HWV	CIRCUIT BOARD A	1	TX-43P800X/HQ/HZ
RTL	TZTNP010HWV	CIRCUIT BOARD A	1	TX-43P800HM
RTL	TZTNP010JAV	CIRCUIT BOARD D	1	TX-51P800X/HM/HQ
RTL	TZTNP020HWV	CIRCUIT BOARD D	1	TX-43P800X/HM/HQ
RTL	TZTNP010HYV	CIRCUIT BOARD D	1	TX-43P800HZ
RTL	TNPA2555AD	CIRCUIT BOARD H	1	
RTL	TNPA2945AB	CIRCUIT BOARD P	1	TX-51P800X
RTL	TNPA2945	CIRCUIT BOARD P	1	TX-51P800HM/HQ
RTL	TXN/P10HZV	CIRCUIT BOARD P	1	TX-43P800X
RTL	TXN/P10HWV	CIRCUIT BOARD P	1	TX-43P800HM/HQ
RTL	TXN/P10HYV	CIRCUIT BOARD P	1	TX-43P800HZ
RTL	TZTNP010JBV	CIRCUIT BOARD U	1	51 inch models
RTL	TZTNP030HWV	CIRCUIT BOARD U	1	43 inch models
RTL	TNPA2934	CIRCUIT BOARD DC	1	51 inch models
RTL	TXNDC10HWV	CIRCUIT BOARD DC	1	43 inch models
RTL	TXNDG10JBV	CIRCUIT BOARD DG	1	
RTL	TNPA2332AF	CIRCUIT BOARD LR	1	51 inch models
RTL	TNPA2332AG	CIRCUIT BOARD LR	1	43 inch models
RTL	TNPA2333AF	CIRCUIT BOARD LG	1	51 inch models
RTL	TNPA2333AG	CIRCUIT BOARD LG	1	43 inch models
RTL	TNPA2334AF	CIRCUIT BOARD LB	1	51 inch models
RTL	TNPA2334AG	CIRCUIT BOARD LB	1	43 inch models
RTL	TNPA2936	CIRCUIT BOARD G	1	
RTL	TNPA2941	CIRCUIT BOARD KA	1	
RTL	TNPA2940	CIRCUIT BOARD K	1	
S840	ESB92S11B	SWITCH	1	
S1003-07	EVQ23405R	SWITCH	5	
T001	TSK1040	FERRITE CORE	1	G1BYYYH00004
T501	ETH19Y187AY	DRIVE TRANS	1	

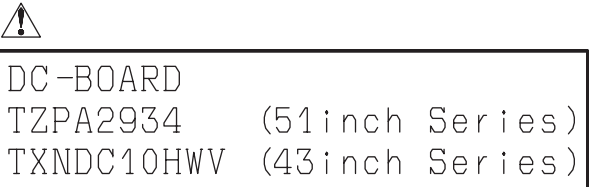
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
T551	KFT7AA457F	FLYBACK TRANS	1	
T801	ETS42AE2X6AC	POWER TRANS	1	
T881	ETS24KC156AG	SWITCHING TRANS	1	
T1001	TSKX027	CHOKE COIL	1	G0BYYYG00005
T2001	TSK1040	FERRITE CORE	1	G1BYYYH00004
T2002	TSKX026	CHOKE COIL	1	G0BYYY00016
T2003	TSK1040	FERRITE CORE	1	G1BYYYH00004
T2004	TSKX026	CHOKE COIL	1	G0BYYY00016
T3001	TSKX026	CHOKE COIL	1	G0BYYY00016
TNR001	J3AAABZ00004	TUNER	1	
TPA12	ERD25V0R00	C 0 OHM, 1/4W	1	
TPA32	ERD25V0R00	C 0 OHM, 1/4W	1	
U1,U2	K1KB30A00092	30P CONNECTOR	2	
X1101	H0J600400006	CRYSTAL	1	
X1301	H0J202500002	CRYSTAL	1	
X2001	TSSA128	CRYSTAL	1	H0D184500008

19. Schematic Diagram for printing with A4

20. Cover for printing with A4

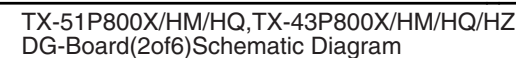
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ D-Board(2of2)Schematic Diagram

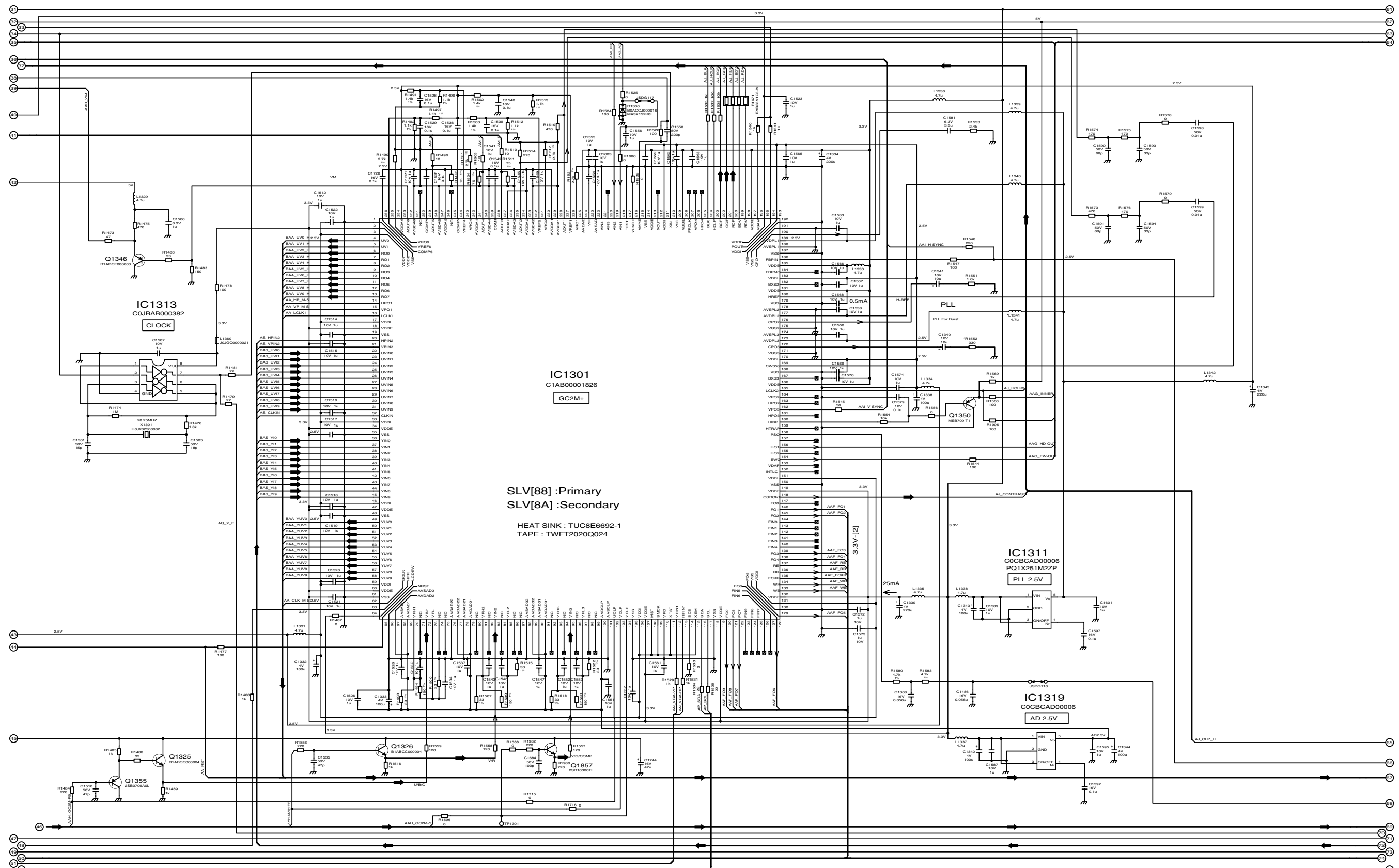
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ D-Board(2of2)Schematic Diagram

TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
DC-Board Schematic Diagram

F

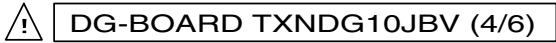


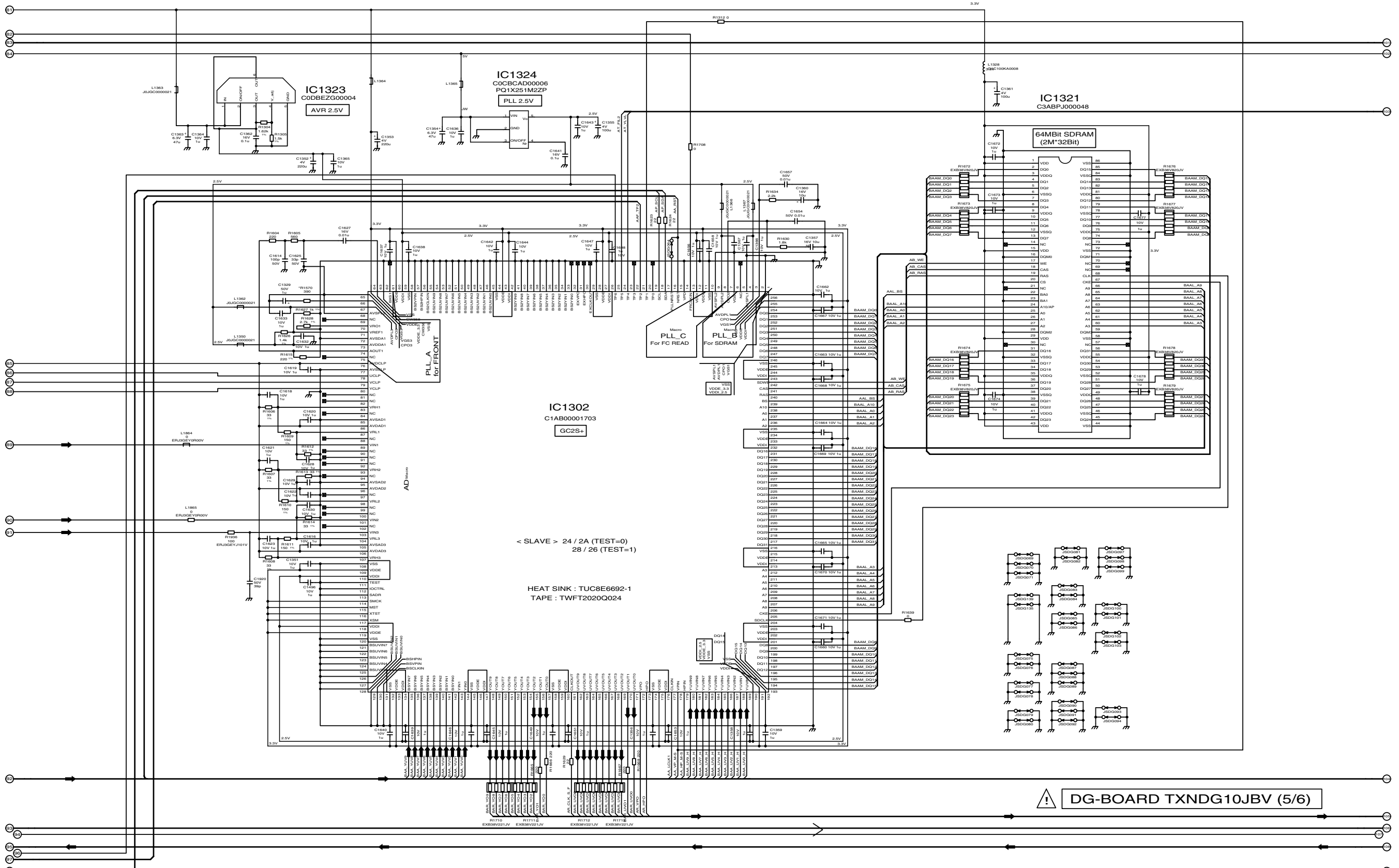


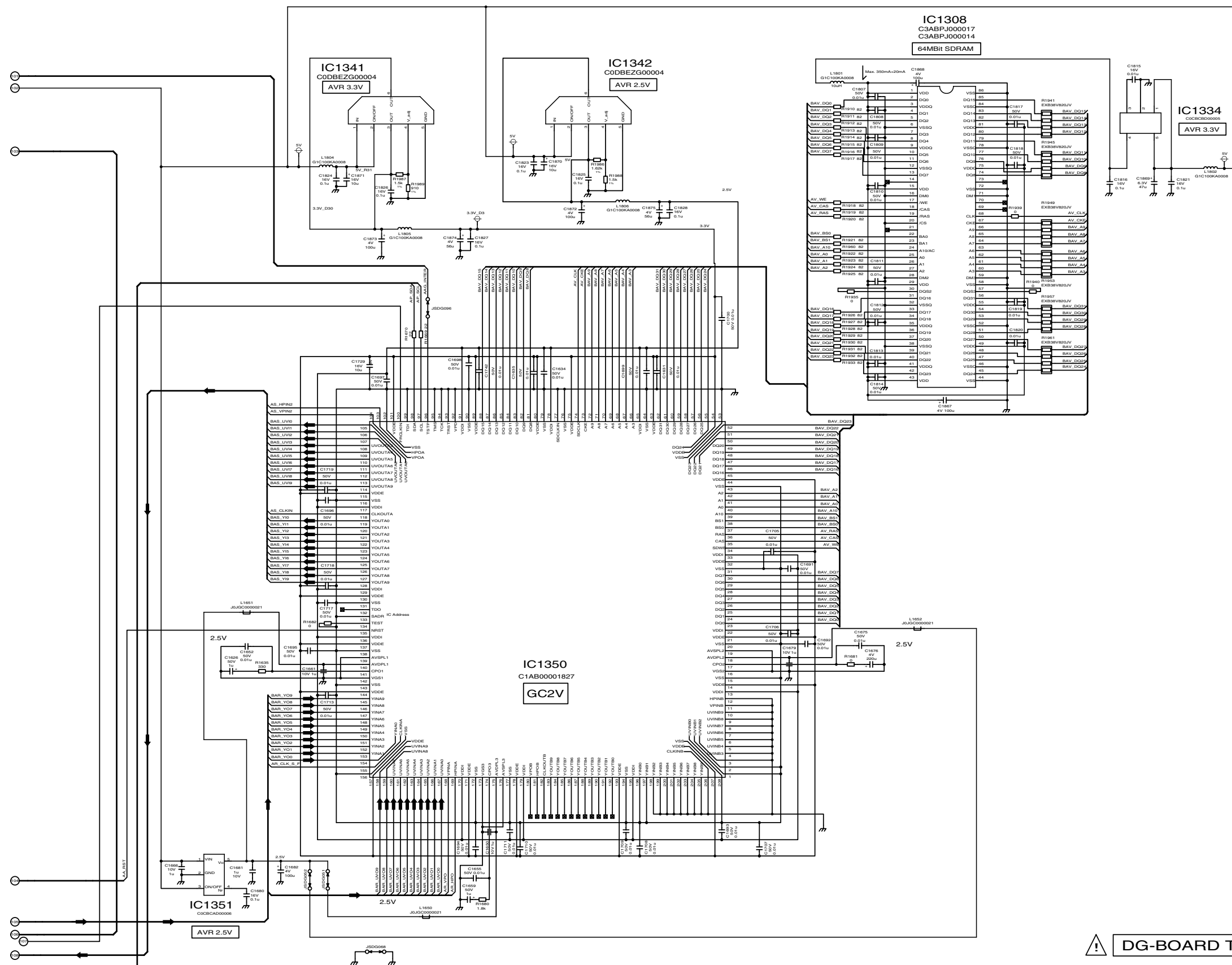


TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
DG-Board(3of6) Schematic Diagram

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DG-Board(3of6)Schematic Diagram

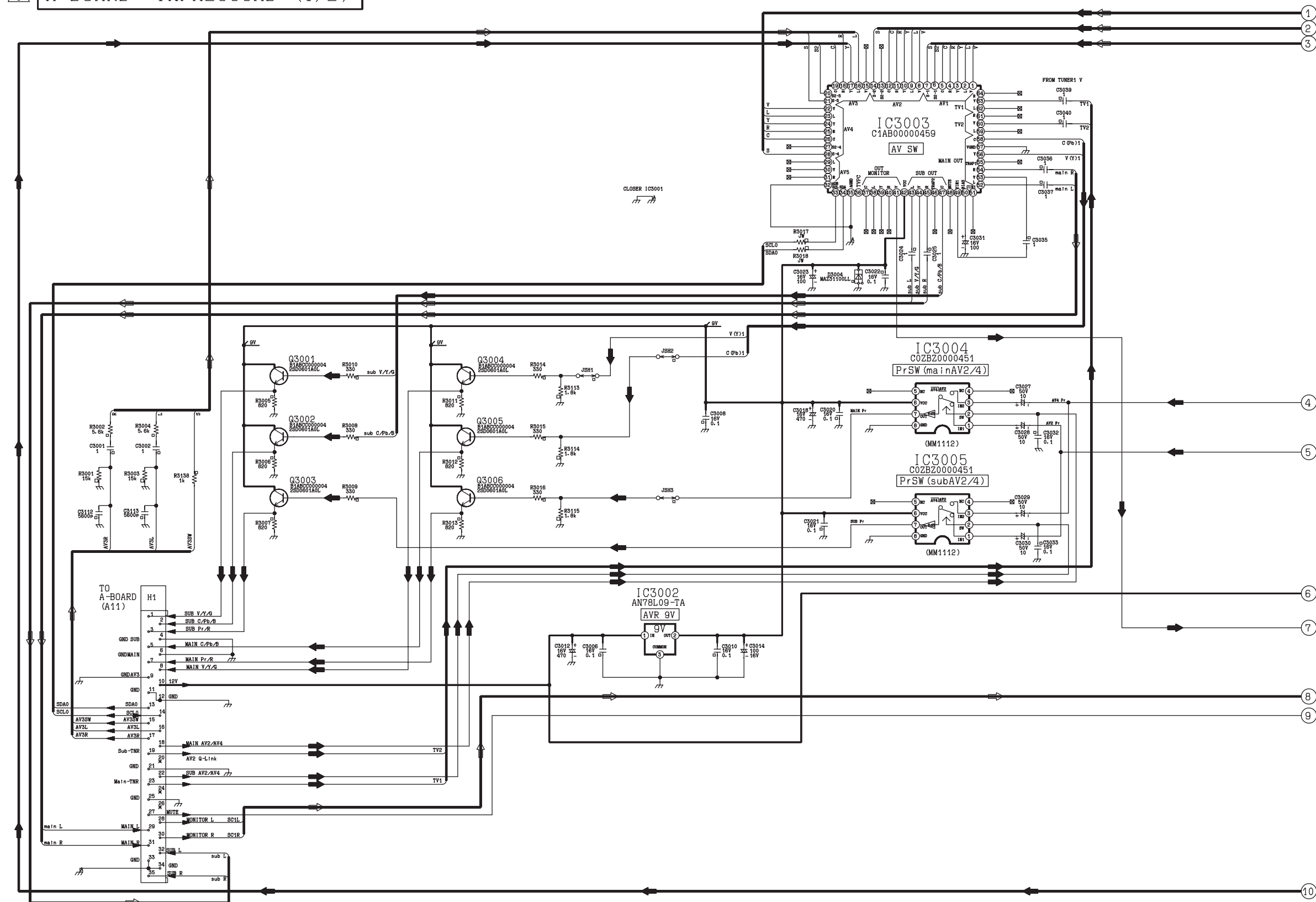






⚠ DG-BOARD TXNDG10JBV (6/6)

 H-BOARD TNPA2555AD (1/2)



TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ H-Board(1of2)Schematic Diagram

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ H-Board(1of2)Schematic Diagram

F



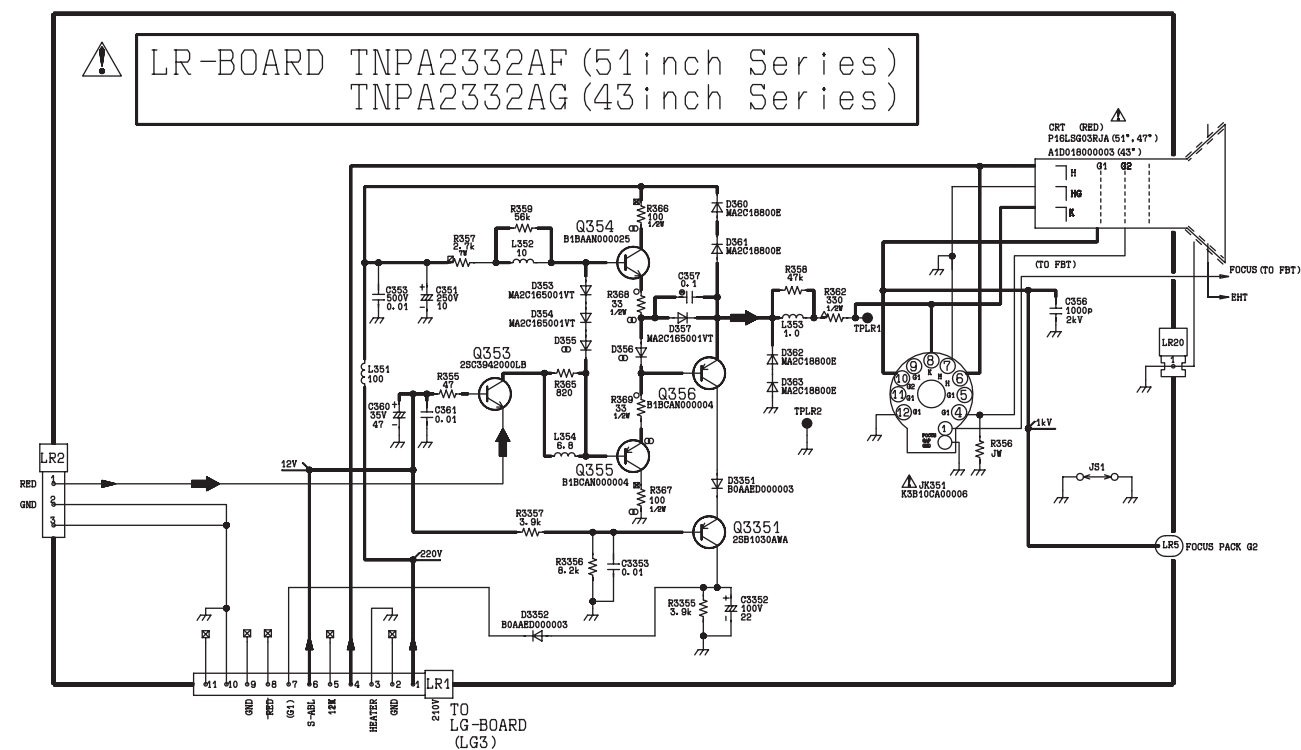
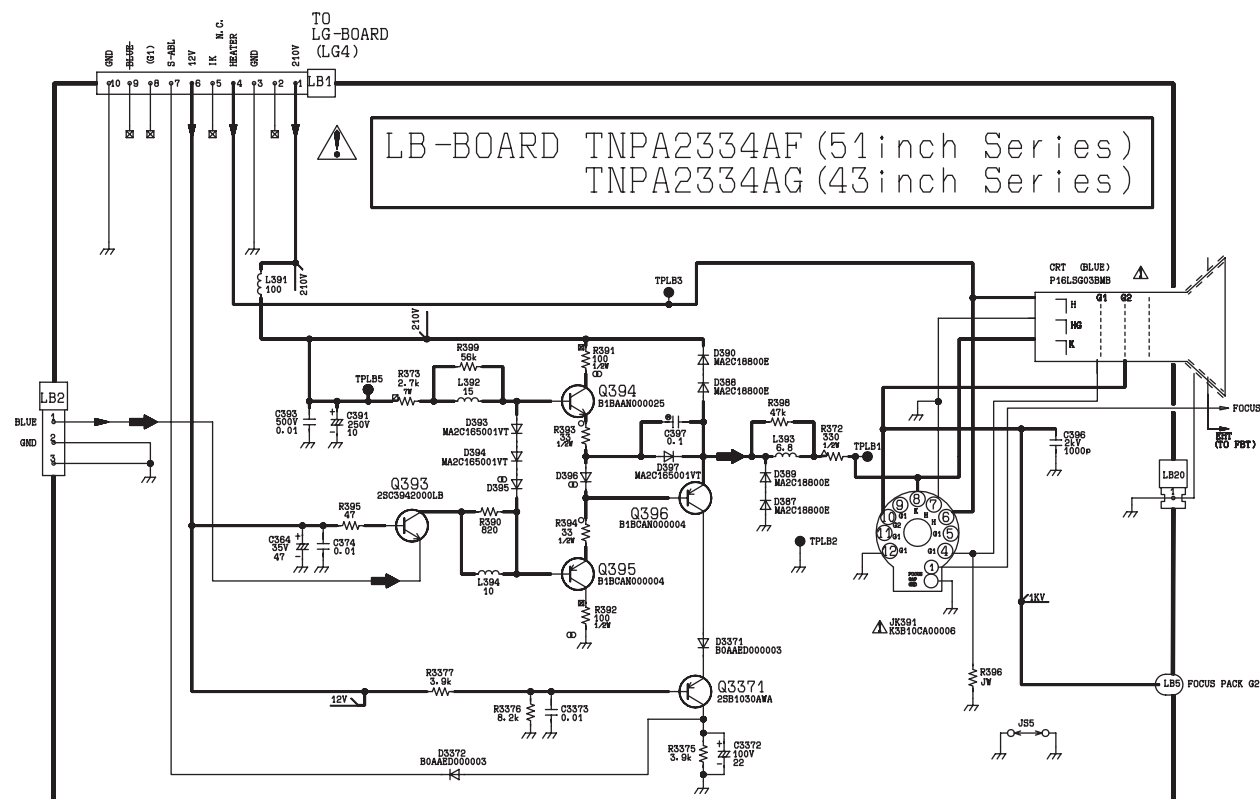
A

B

C

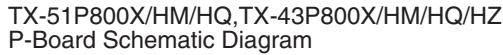
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E

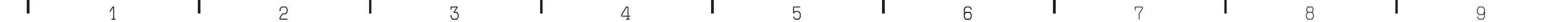


TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
LR and LB-Board Schematic Diagram

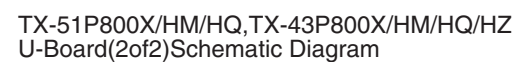
TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
LR and LB-Board Schematic Diagram



A	—
B	—
C	—
D	—
E	—
F	—



U-BOARD (2/2)
TZTNP010JBV (51inch Series)
TZTNP030HWV (43inch Series)

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
U-Board(2of2)Schematic Diagram

14 Schematic Diagram

14.1. Schematic Diagram Notes

Important Safety Notice

Components identified by \triangle mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

Notes:

1. Resistor

All resistors are carbon 1/4W resistor, unless marked as follows:

Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).

\bigcirc	: Nonflammable	\boxtimes	: Metal Oxide
\triangle	: Solid	\odot	: Metal Film
\square	: Wire Wound	\otimes	: Fuse:

2. Capacitor

All capacitors are ceramic 50V capacitor, unless marked as follows:

Unit of capacitance is μ F, unless otherwise noted.

\otimes	: Temperature Compensation	$\begin{array}{c} + \\ \text{---} \text{H} \text{---} \\ \text{---} \end{array}$: Electrolytic
\textcircled{M}	: Polyester	$\begin{array}{c} \text{NP} \\ \text{---} \text{H} \text{---} \\ \text{---} \end{array}$: Bipolar
\textcircled{m}	: Metalized Polyester	\textcircled{T}	: Dipped Tantalum
\boxtimes	: Polypropylene	\textcircled{Z}	: Z-Type

3. Coil

Unit of inductance is μ H, unless otherwise noted.

4. Test Point

\bigcirc : Test Point position

5. Earth Symbol

$\text{---} \text{H} \text{---}$: Chassis Earth (Cold) \downarrow : Line Earth (Hot)

6. Voltage Measurement

Voltage is measured by a DC voltmeter.

Conditions of the measurement are the following:

Power Source	
TX-43/51P800HM/HQ, TX-43P800HZ	: AC 220V-240V, 50/60Hz
TX-43/51P800X	: AC 110V-240V, 50/60Hz
Receiving Signal	Colour Bar signal (RF)
All customer's controls	Maximum positions

7. Number in red circle indicates waveform number.

(See waveform pattern table.)

8. When arrow mark (\nearrow) is found, connection is easily found from the direction of arrow

9. Indicates the major signal flow. : Video \rightarrow Audio \Rightarrow

10. This schematic diagram is the latest at the time of printing and subject to change without notice.



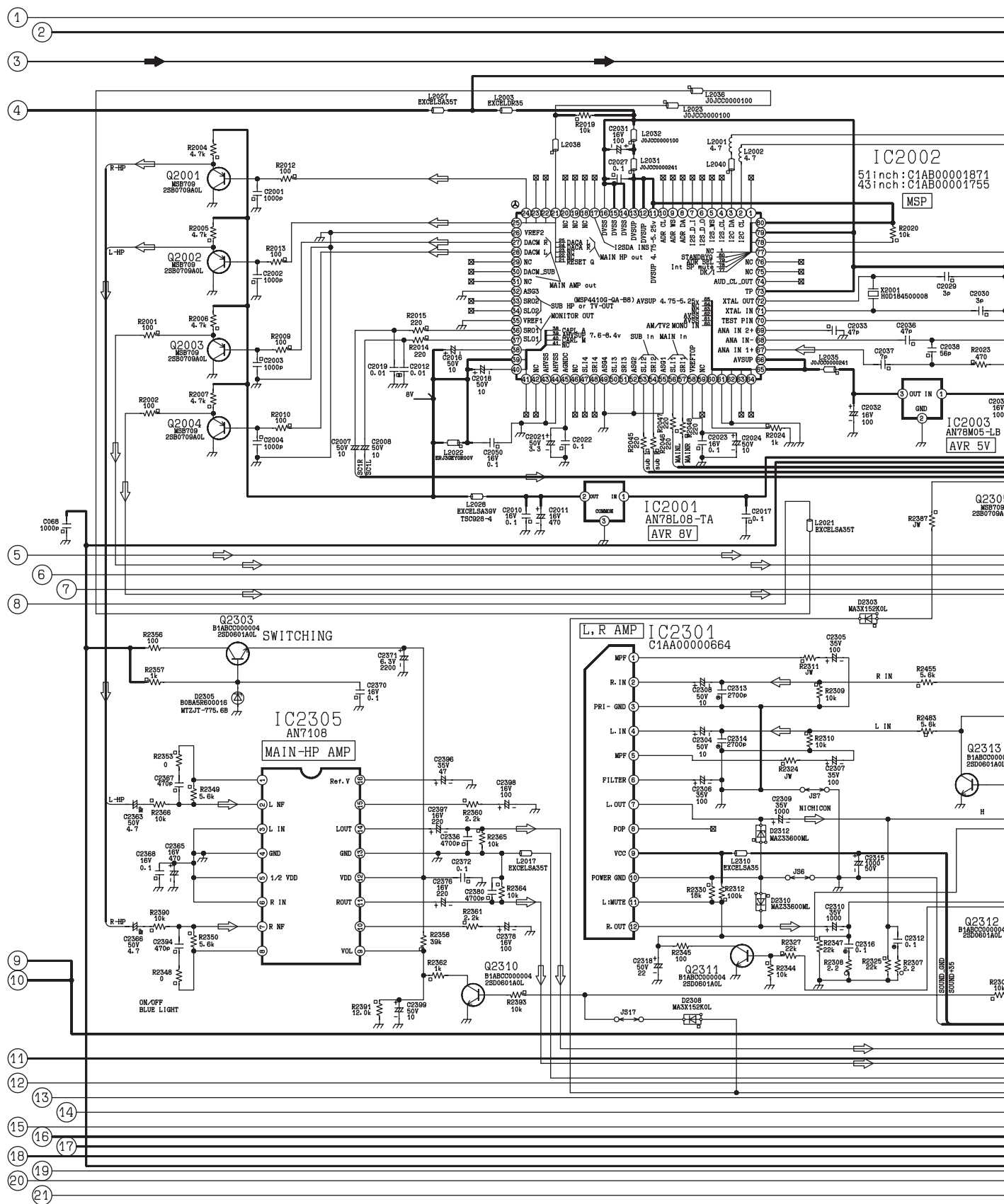
Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions.
All circuits, except the Power Circuit, are cold.
Precautions
 - a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
 - b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
 - c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
Connect the earth of instruments to the earth connection of the circuit being measured.
 - d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
MA150- MA162 (Replacement part)



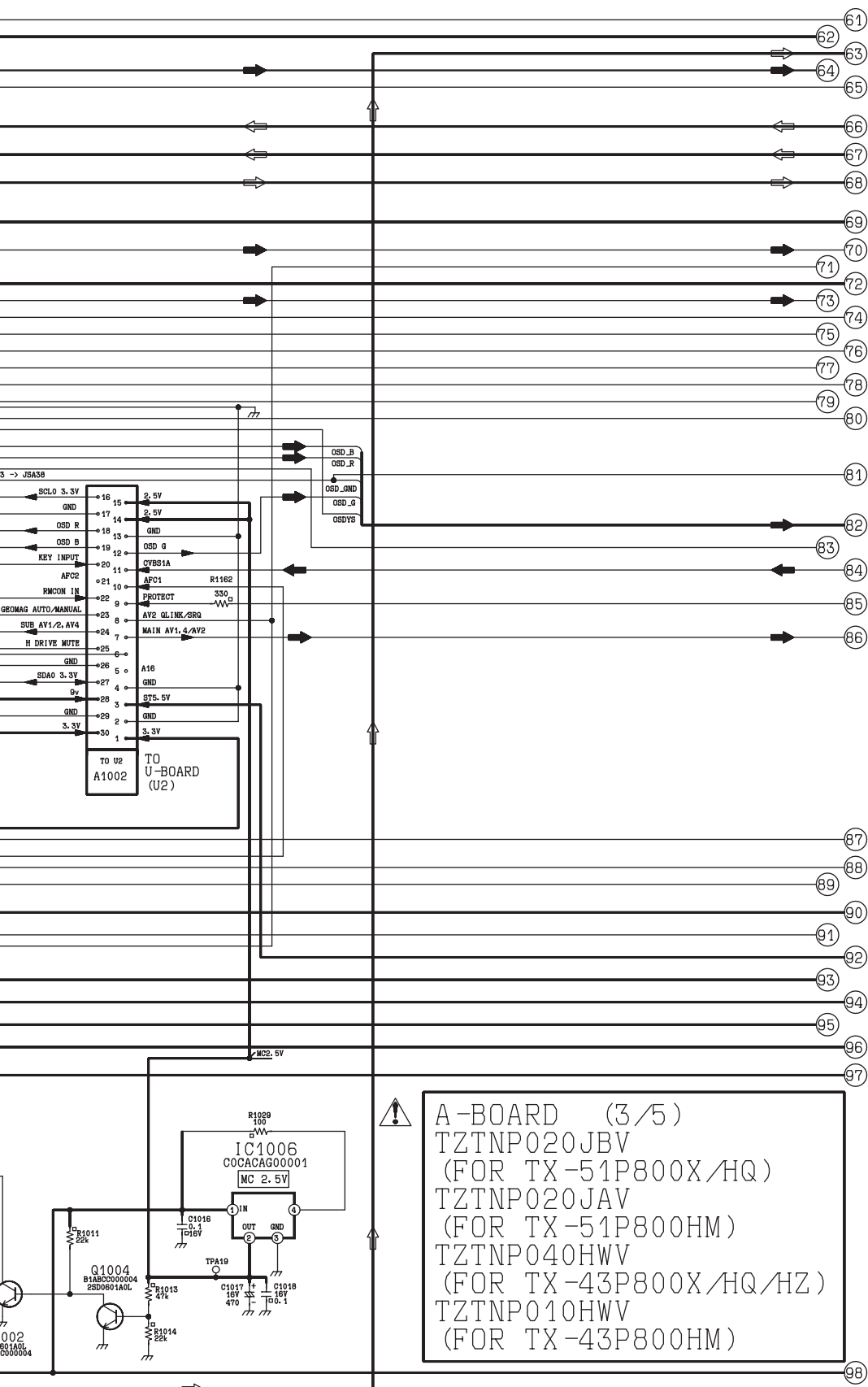


14.3. A-Board (2 of 5) Schematic Diagram



TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ A-Board(2of5) Schematic Diagram





TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ A-Board(3of5)Schematic Diagram

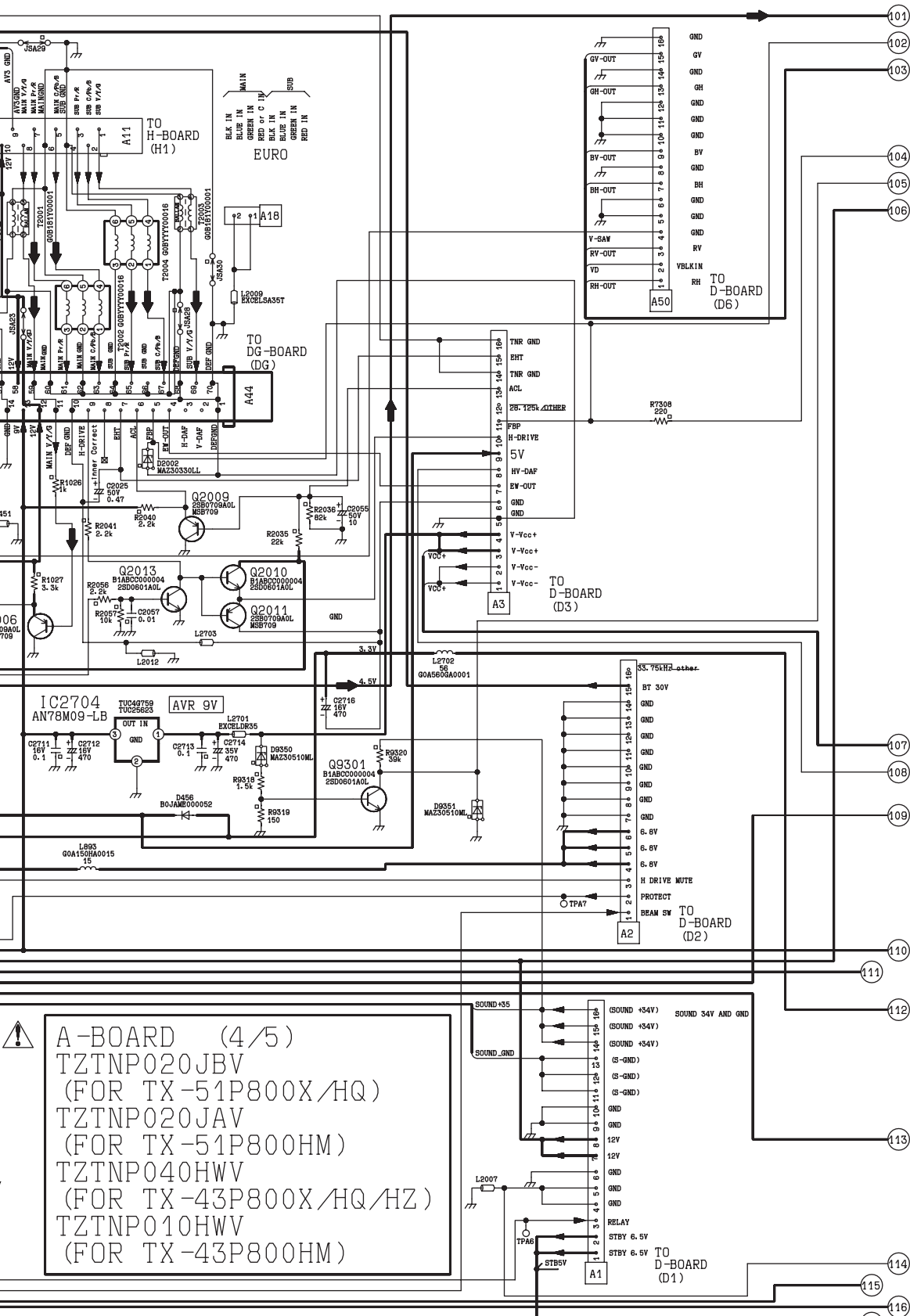
19

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21



A horizontal number line with tick marks at 22, 23, 24, and 25. A bracket is drawn above the line, starting at 22 and ending at 24. The number 3 is written above the bracket.



TX-51P800X/HQ, TX-43P800X/HQ/HZ A-Board(4of5) Schematic Diagram

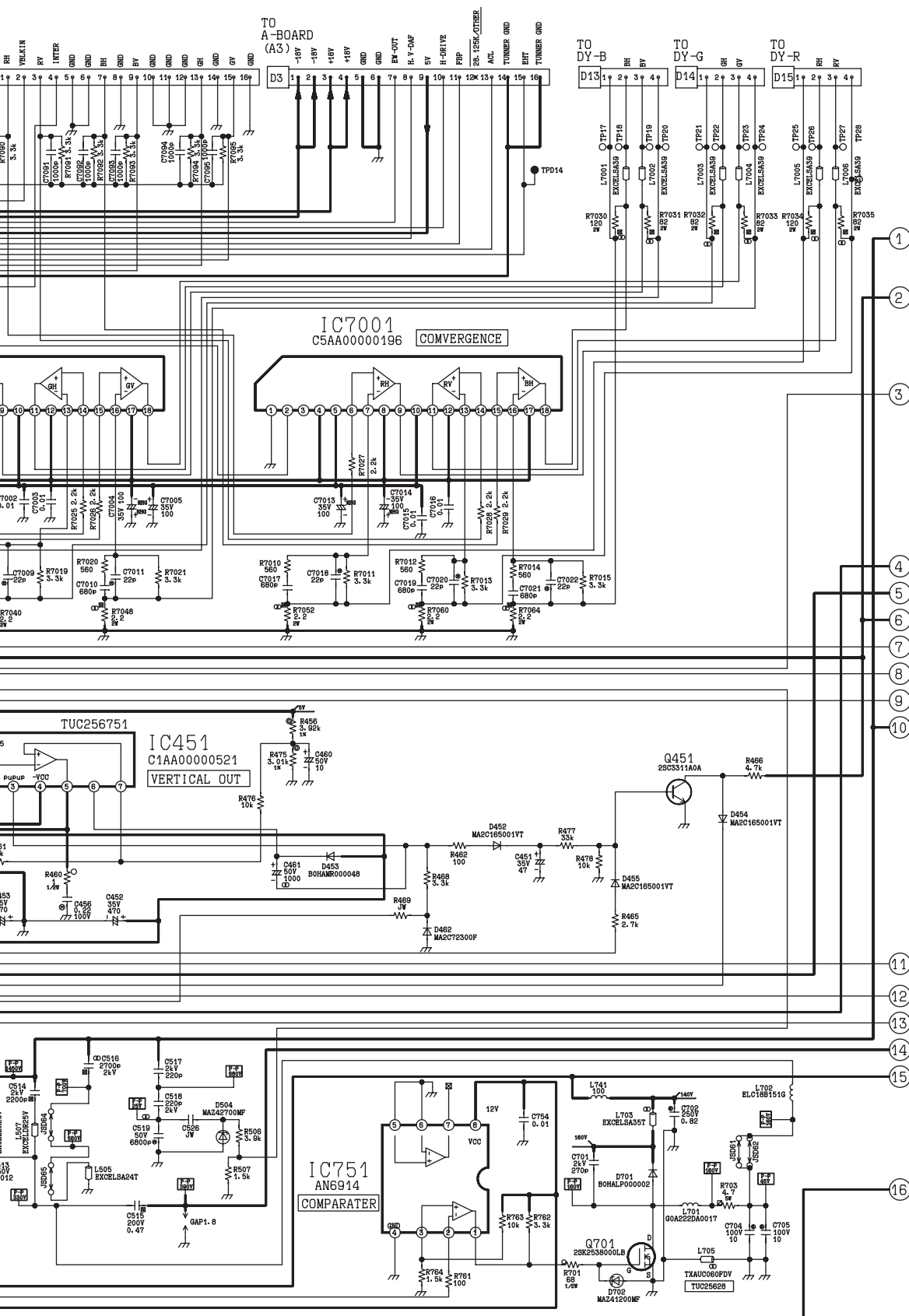
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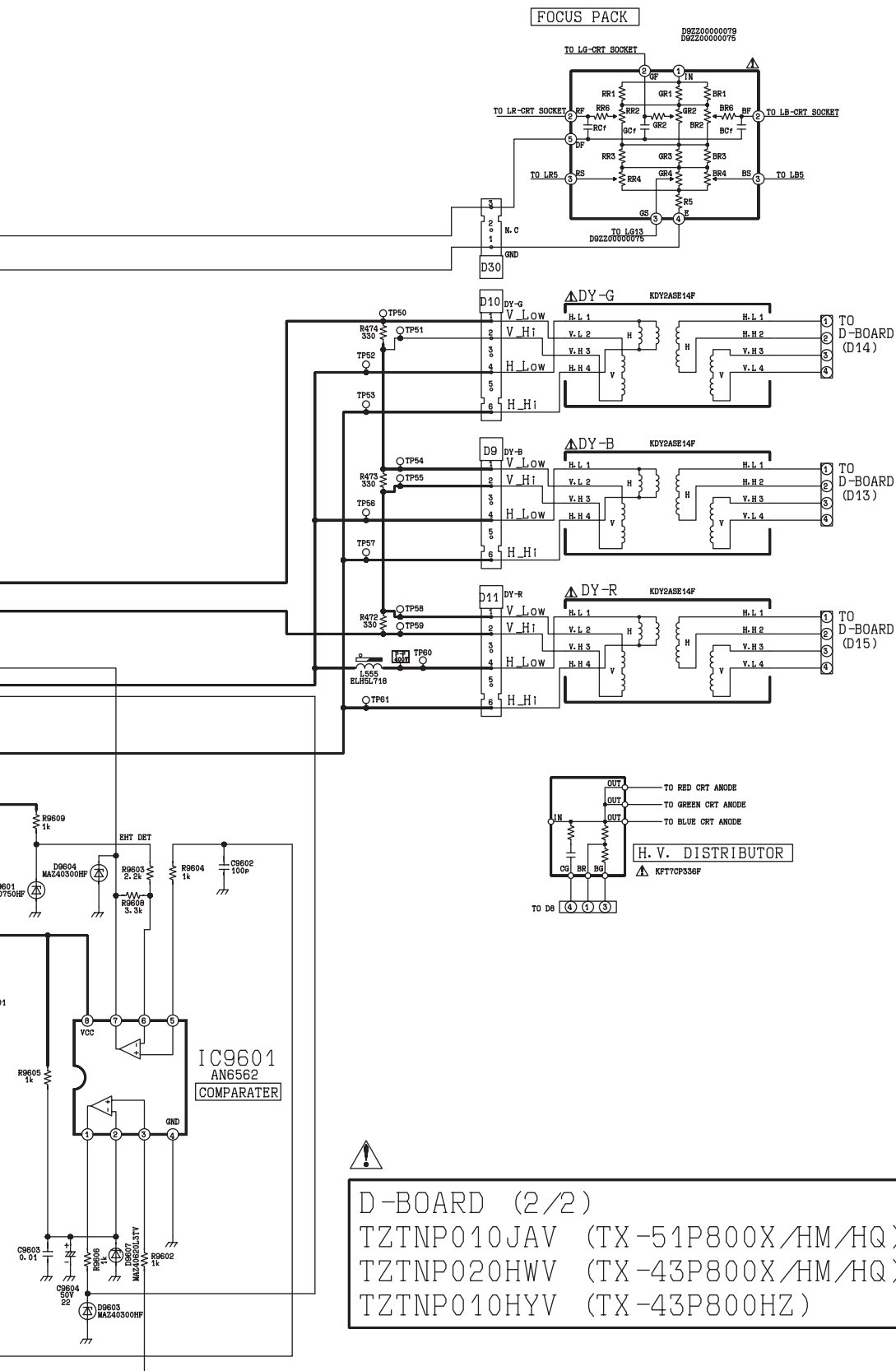
TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ D-Board(1of2)Schematic Diagram

5

6

7





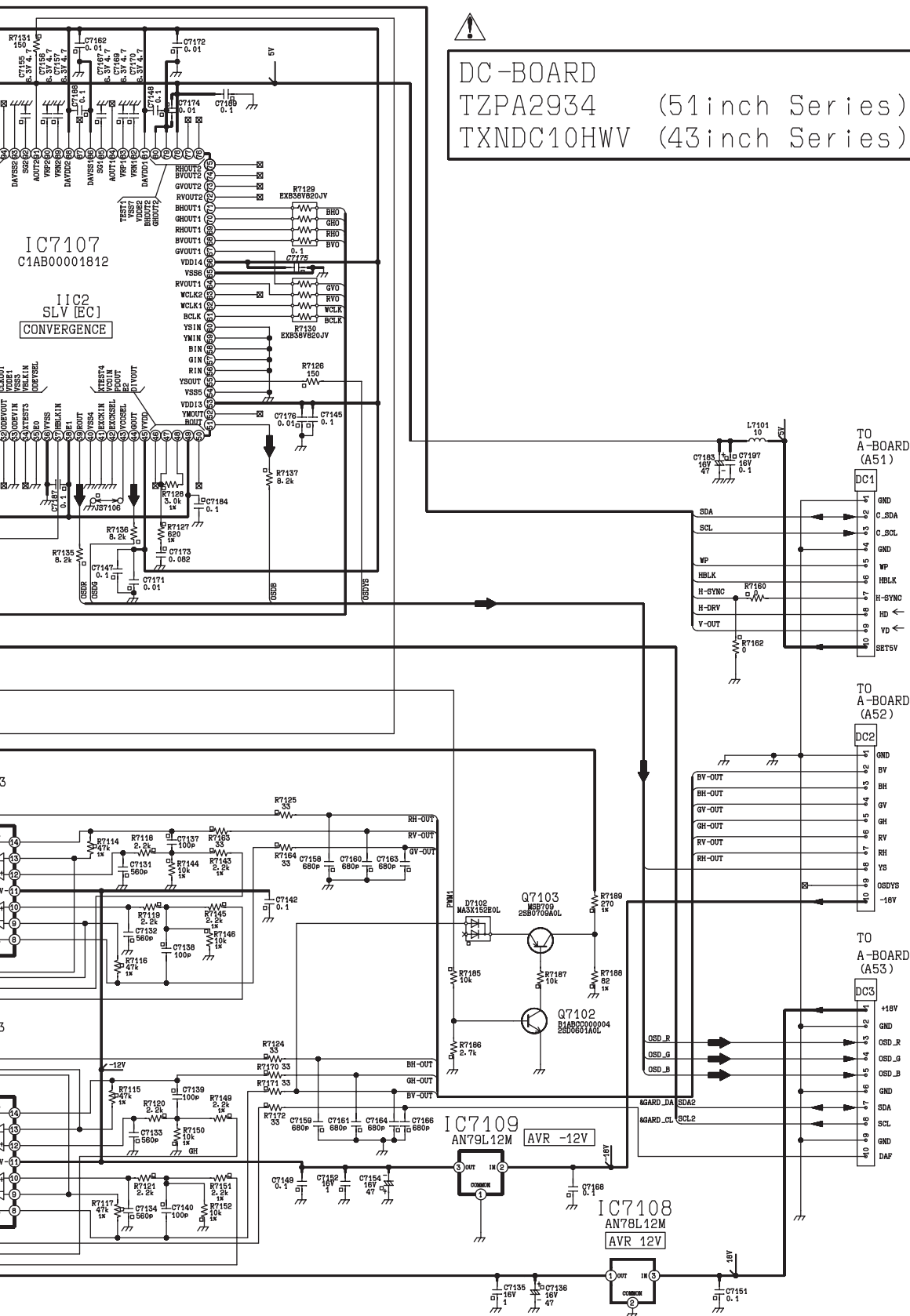
TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ D-Board(2of2) Schematic Diagram

12

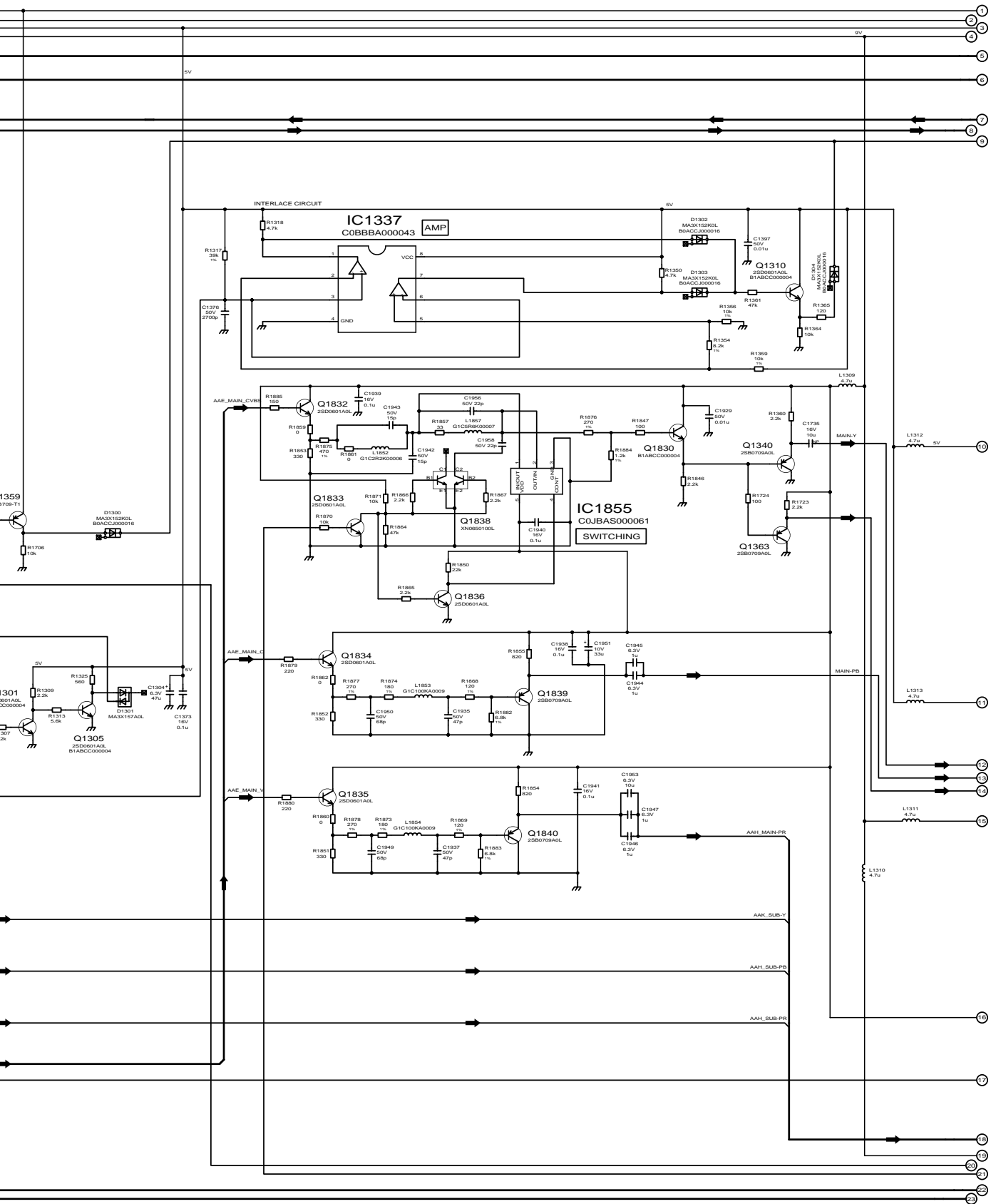
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14



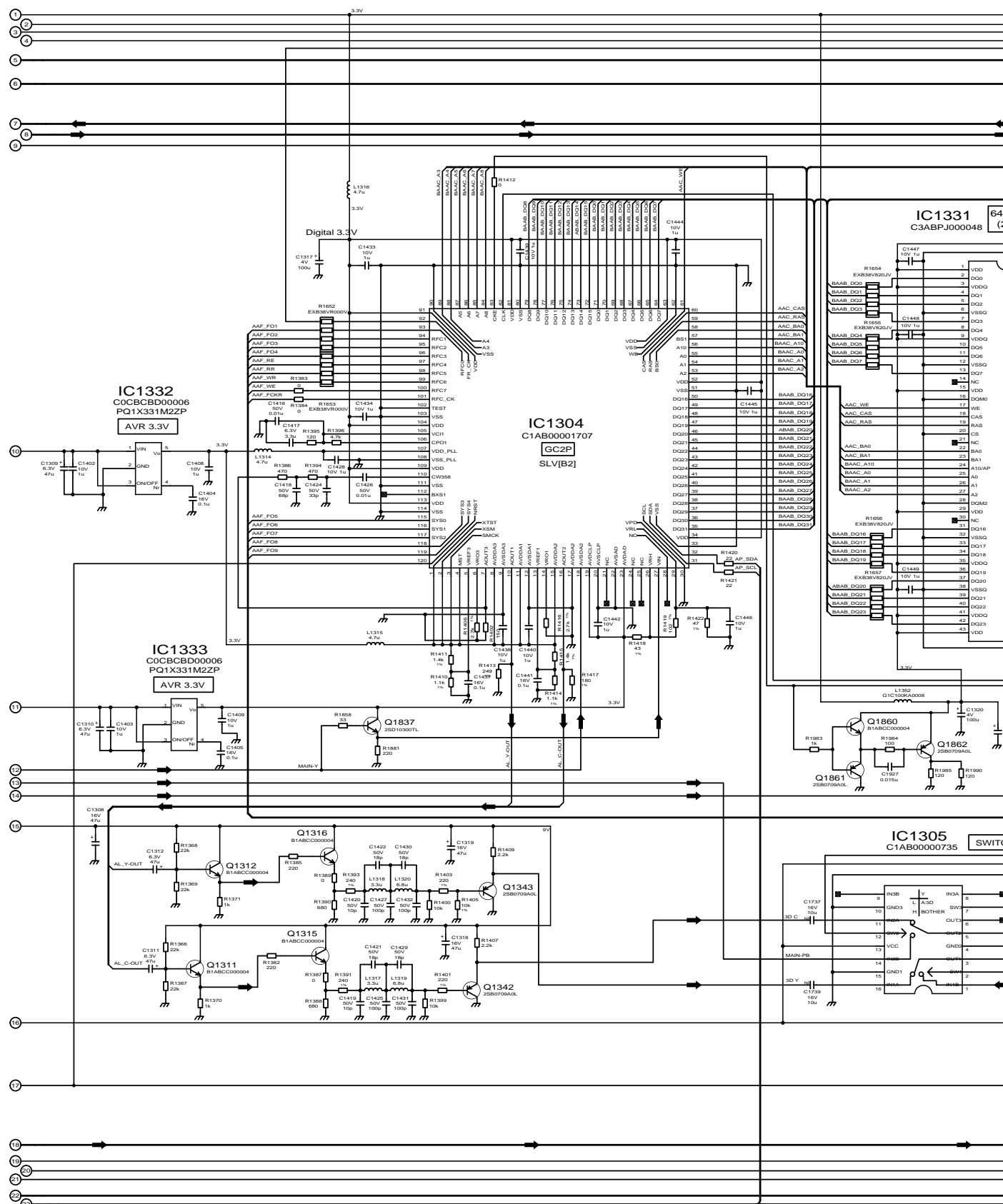






TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ DG-Board(1 of 6) Schematic Diagram

14.11. DG-Board (2 of 6) Schematic Diagram



TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
DG-Board(2of6)Schematic Diagram

10

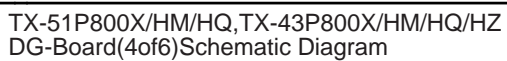
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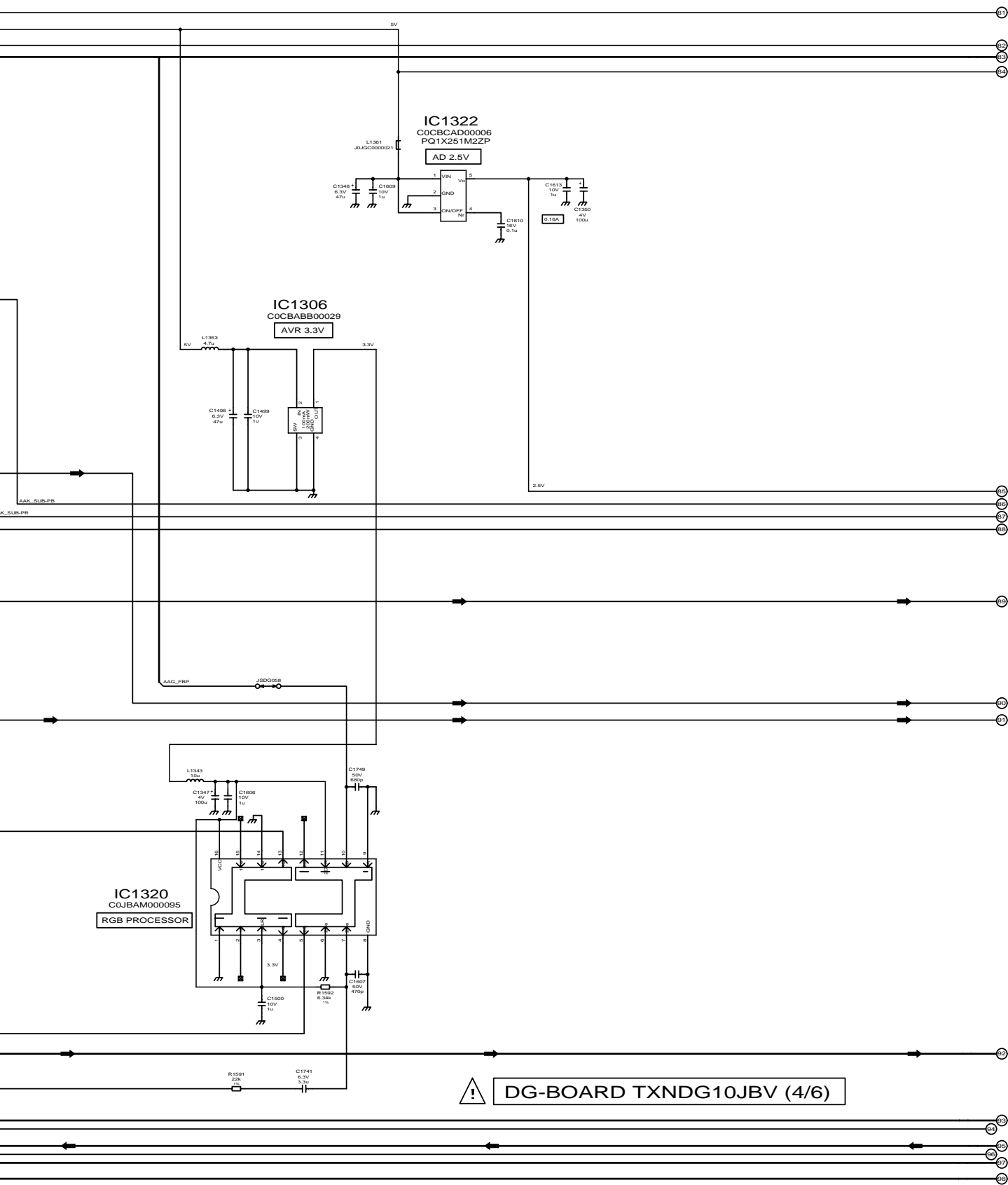
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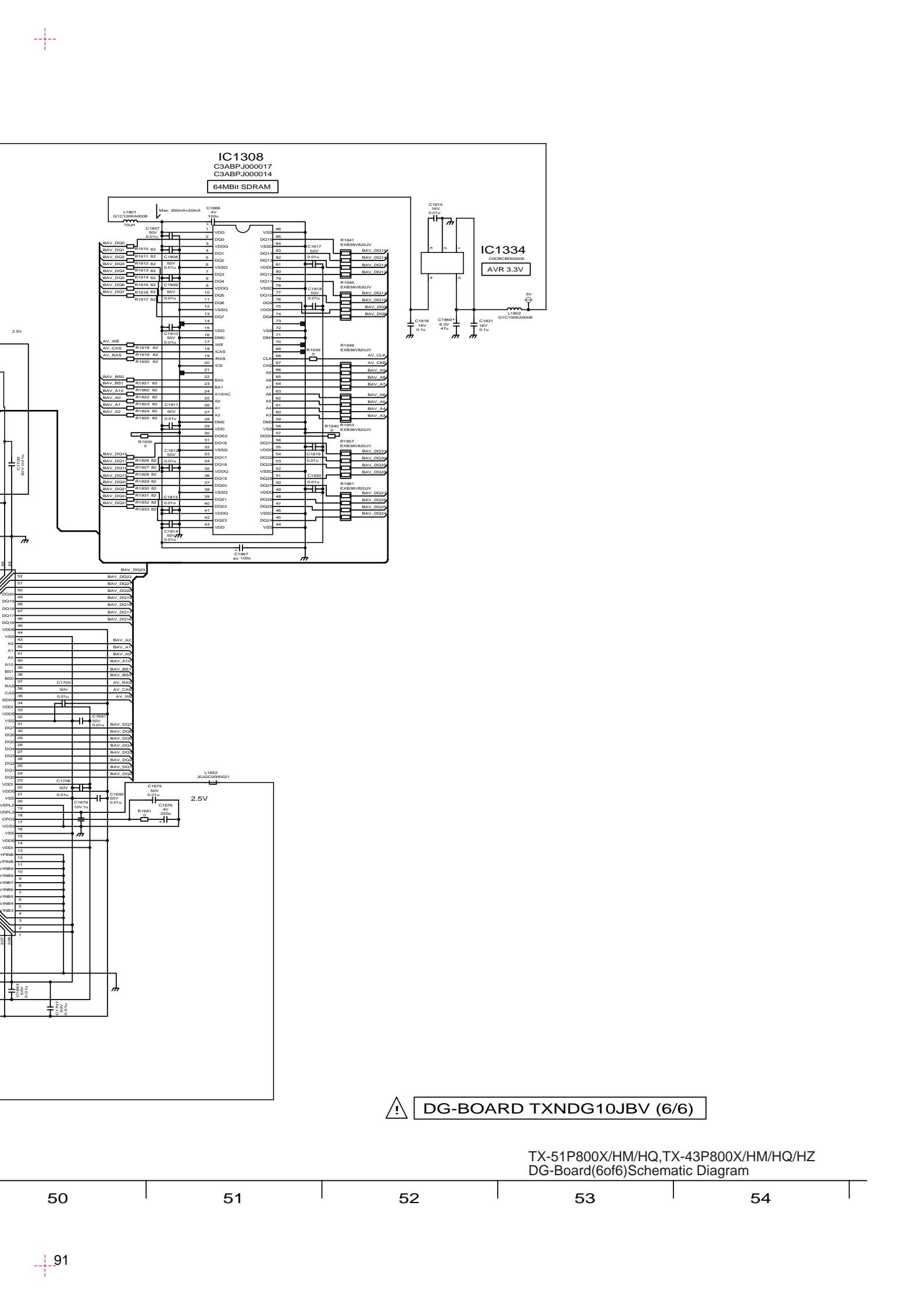


TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
DG-Board(4of6) Schematic Diagram

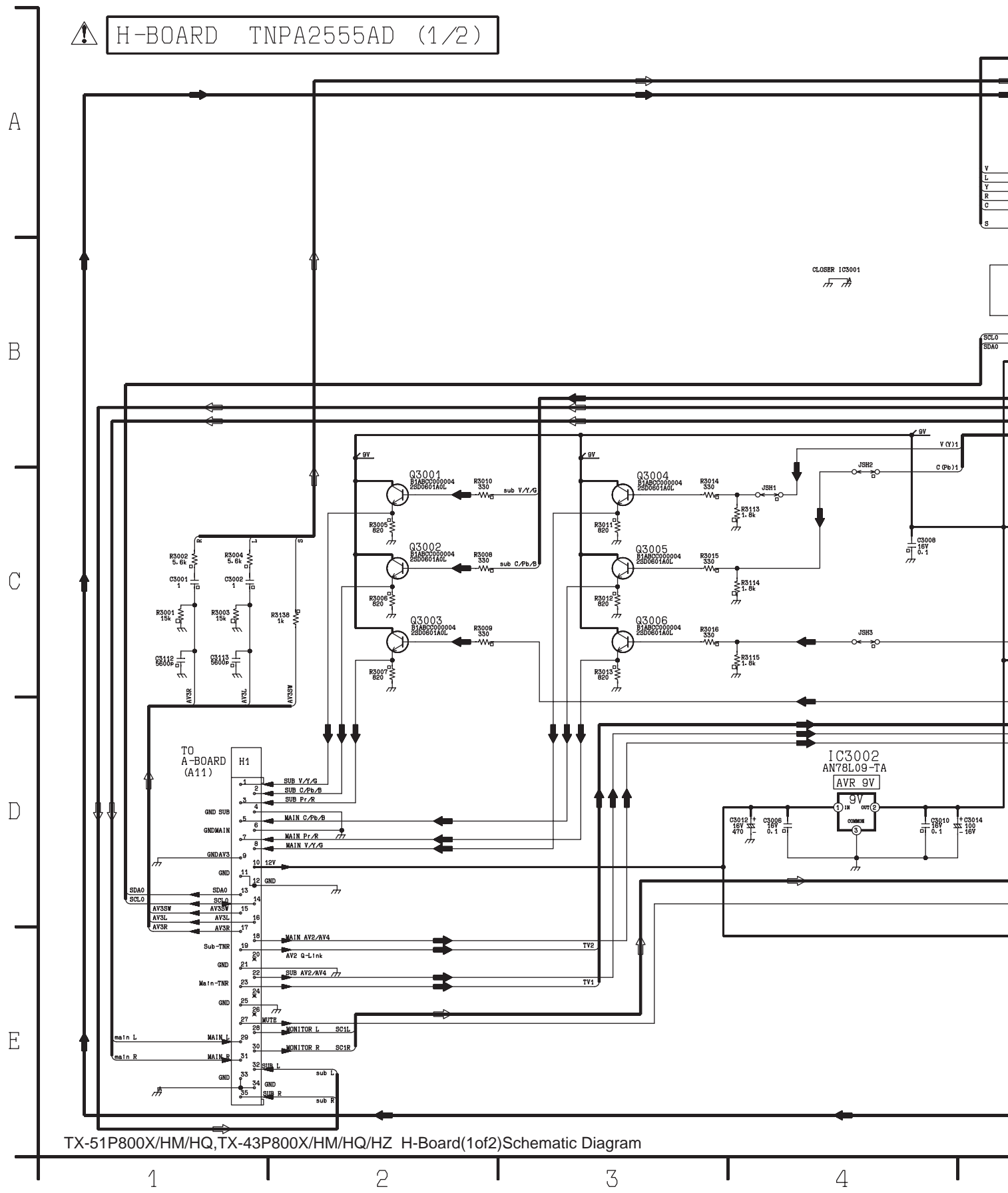




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14.16. H-Board (1 of 2) Schematic Diagram

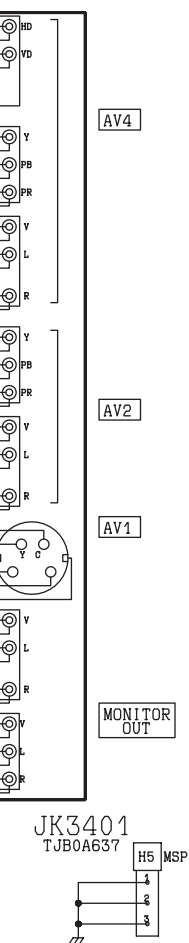








H-BOARD TNPA2555AD (2/2)



TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ H-Board(2of2)Schematic Diagram

12

13

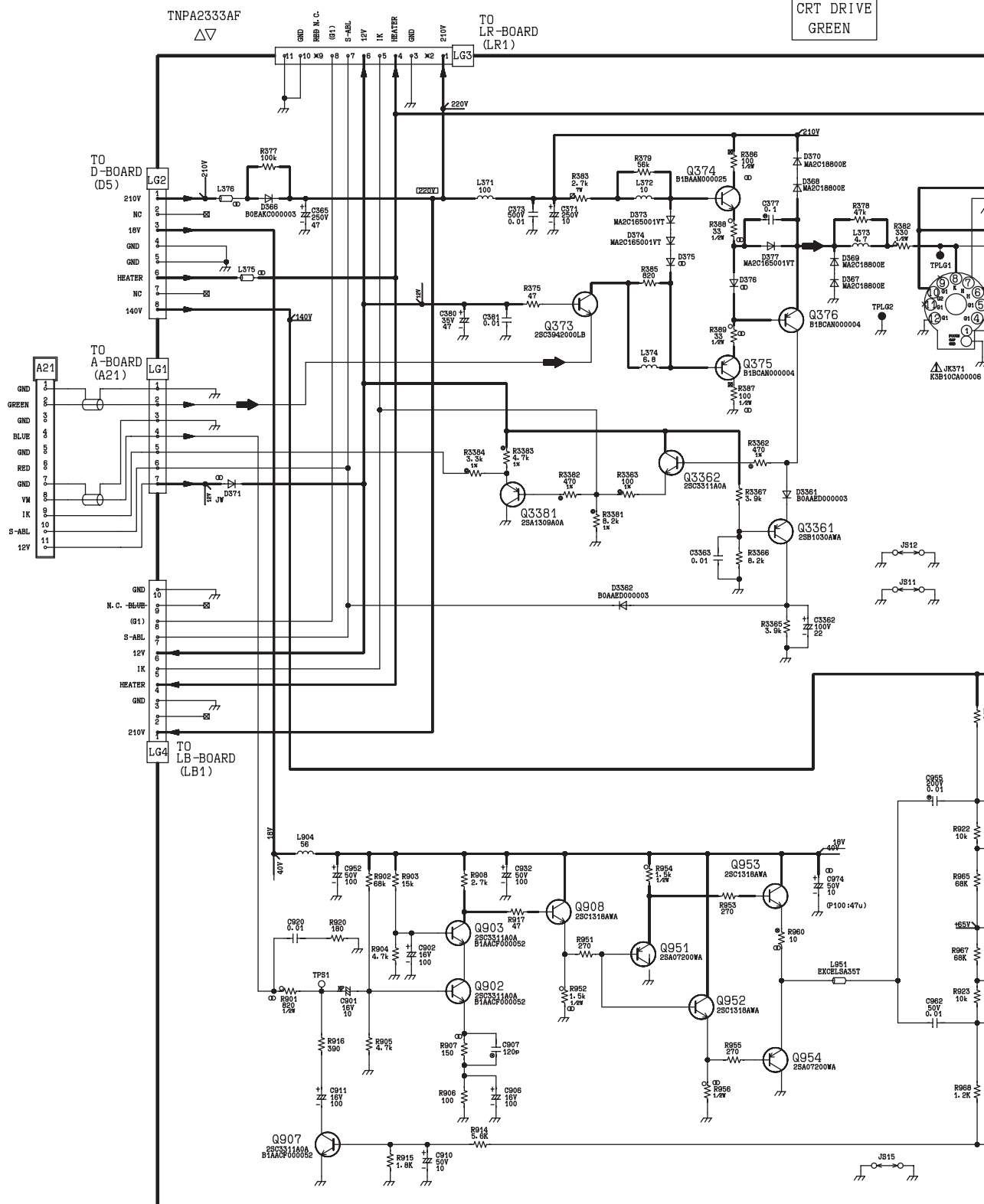
14

14.18. LG-Board Schematic Diagram



LG-BOARD TNPA2333AF (51inch Series)
TNPA2333AG (43inch Series)

CRT DRIVE
GREEN



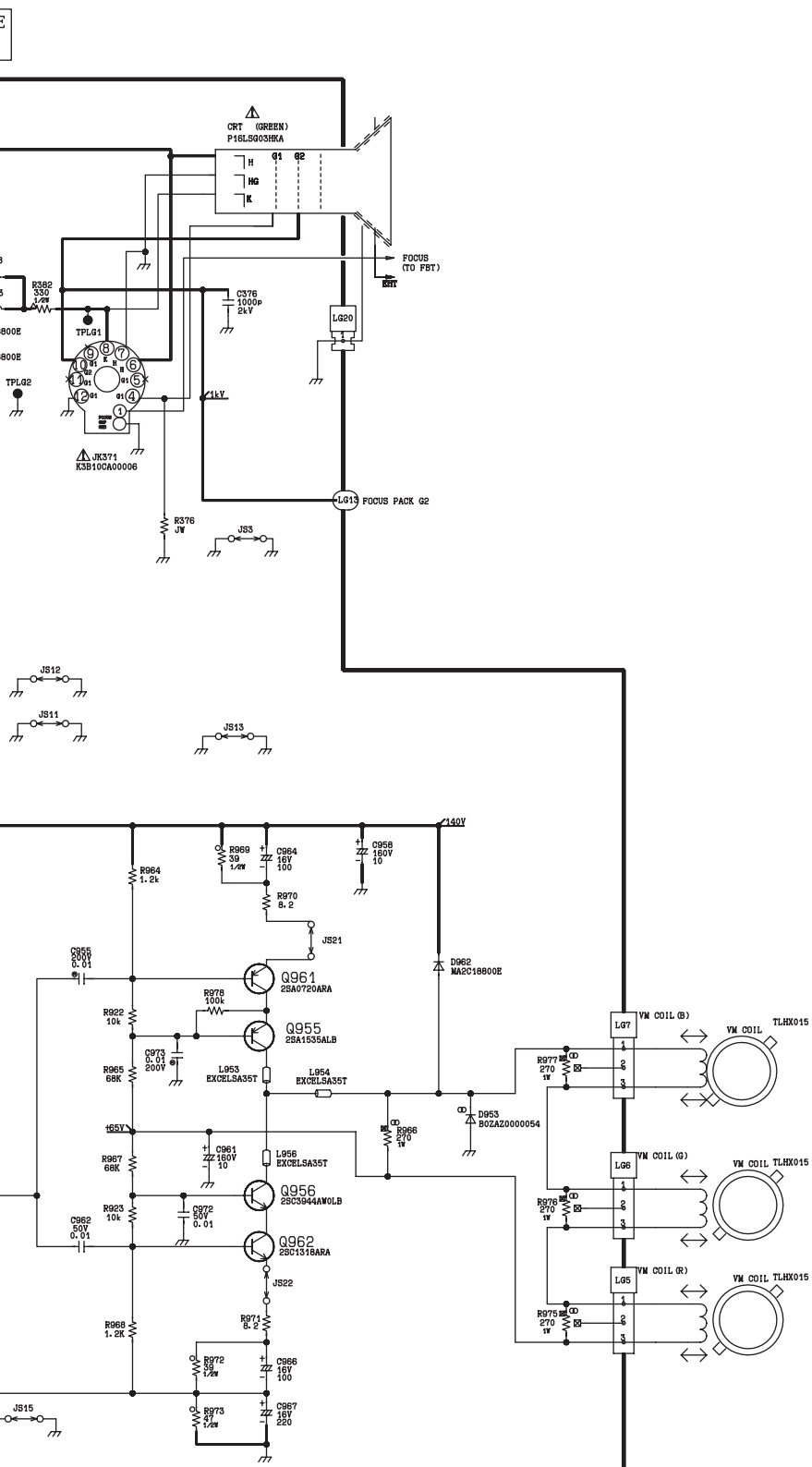
TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ LG-Board Schematic Diagram

1

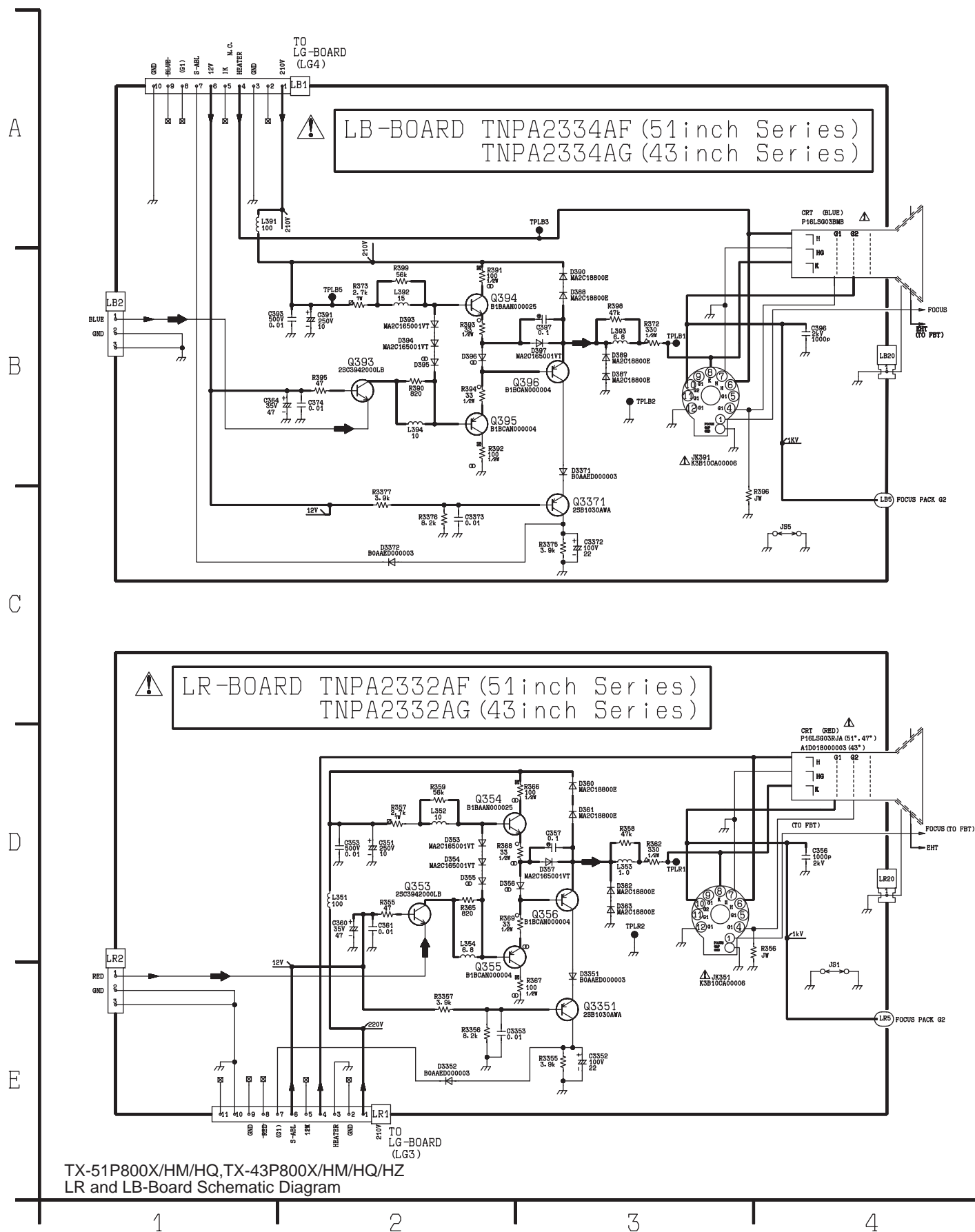
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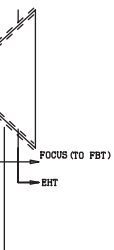


14.19. LR and LB-Board Schematic Diagram





FOCUS PACK G2



FOCUS PACK G2

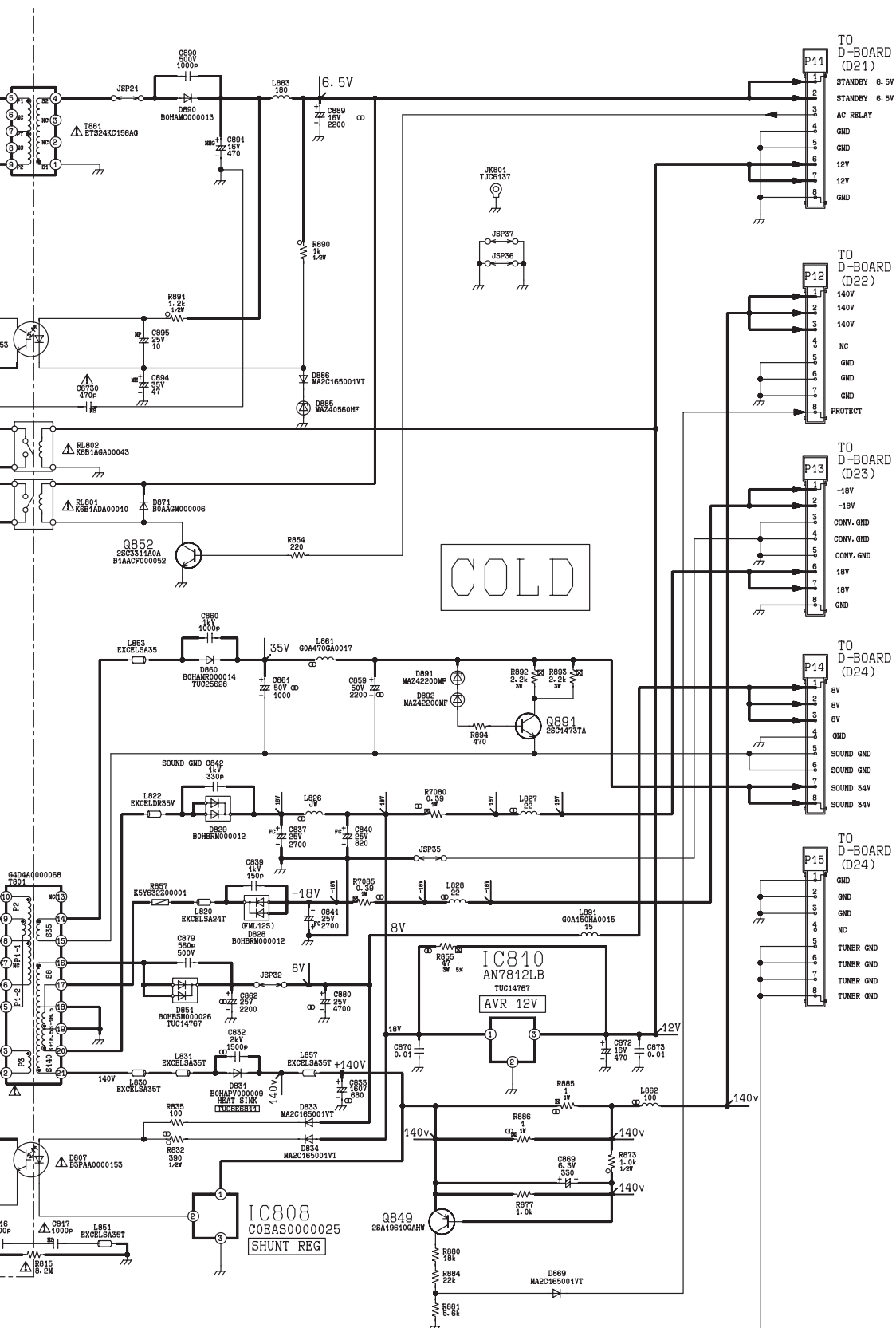
TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
LR and LB-Board Schematic Diagram

5

6

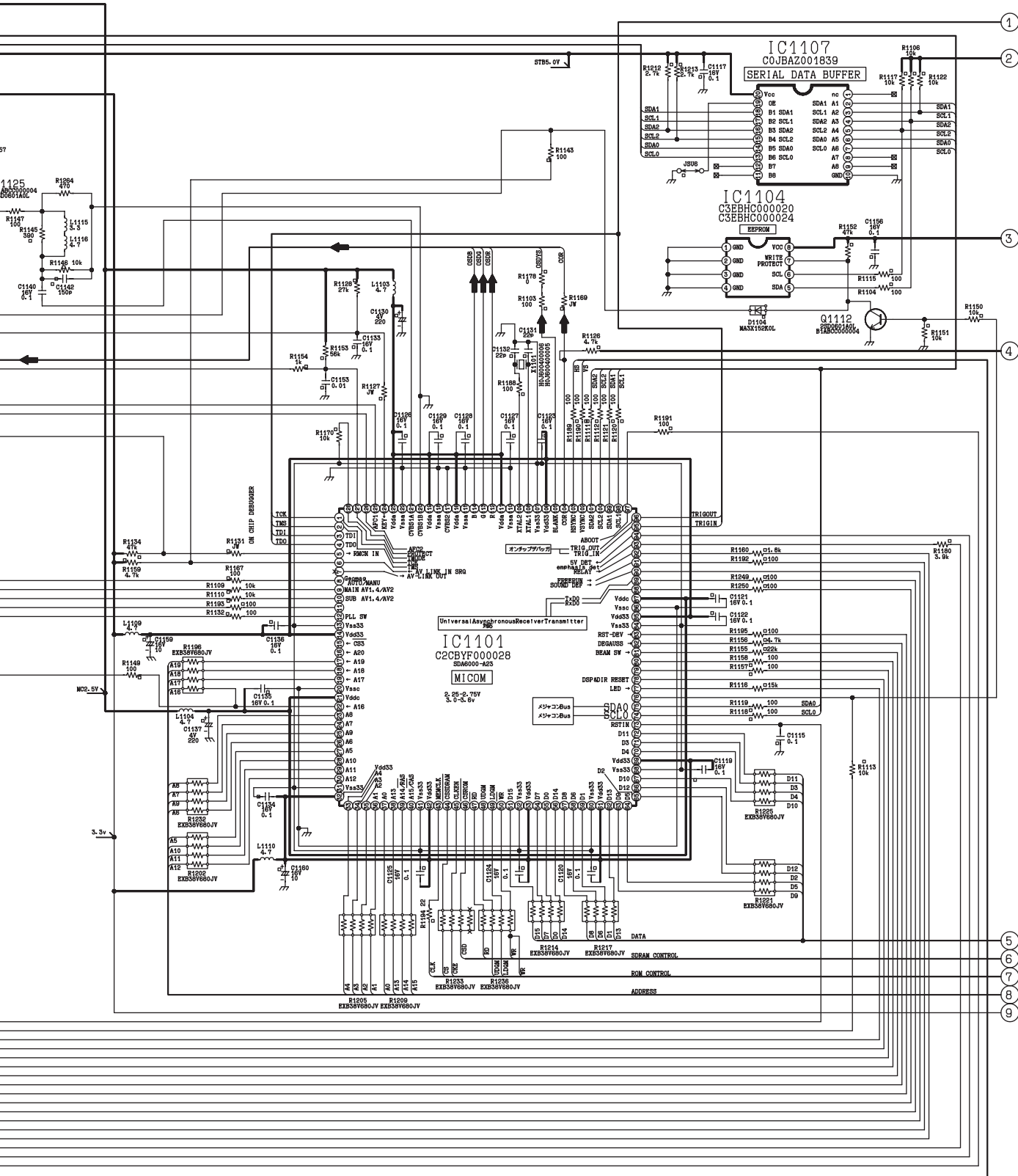
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TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
P-Board Schematic Diagram

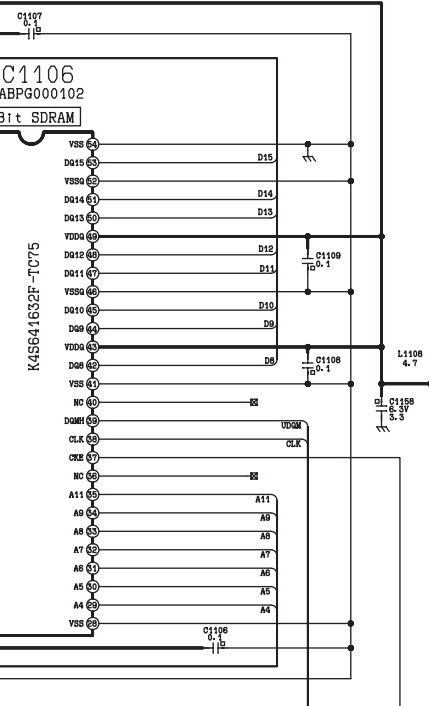
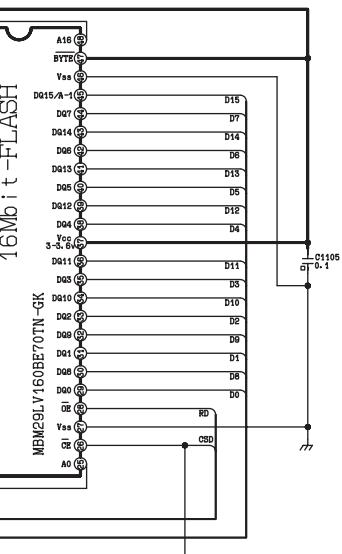




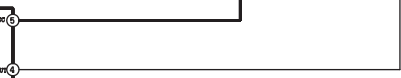
TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
U-Board(1of2) Schematic Diagram

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
U-Board(2of2)Schematic Diagram

C1102
MMD000050
16Mb i t -FLASH



03
00591
ER



TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
U-Board(2of2)Schematic Diagram

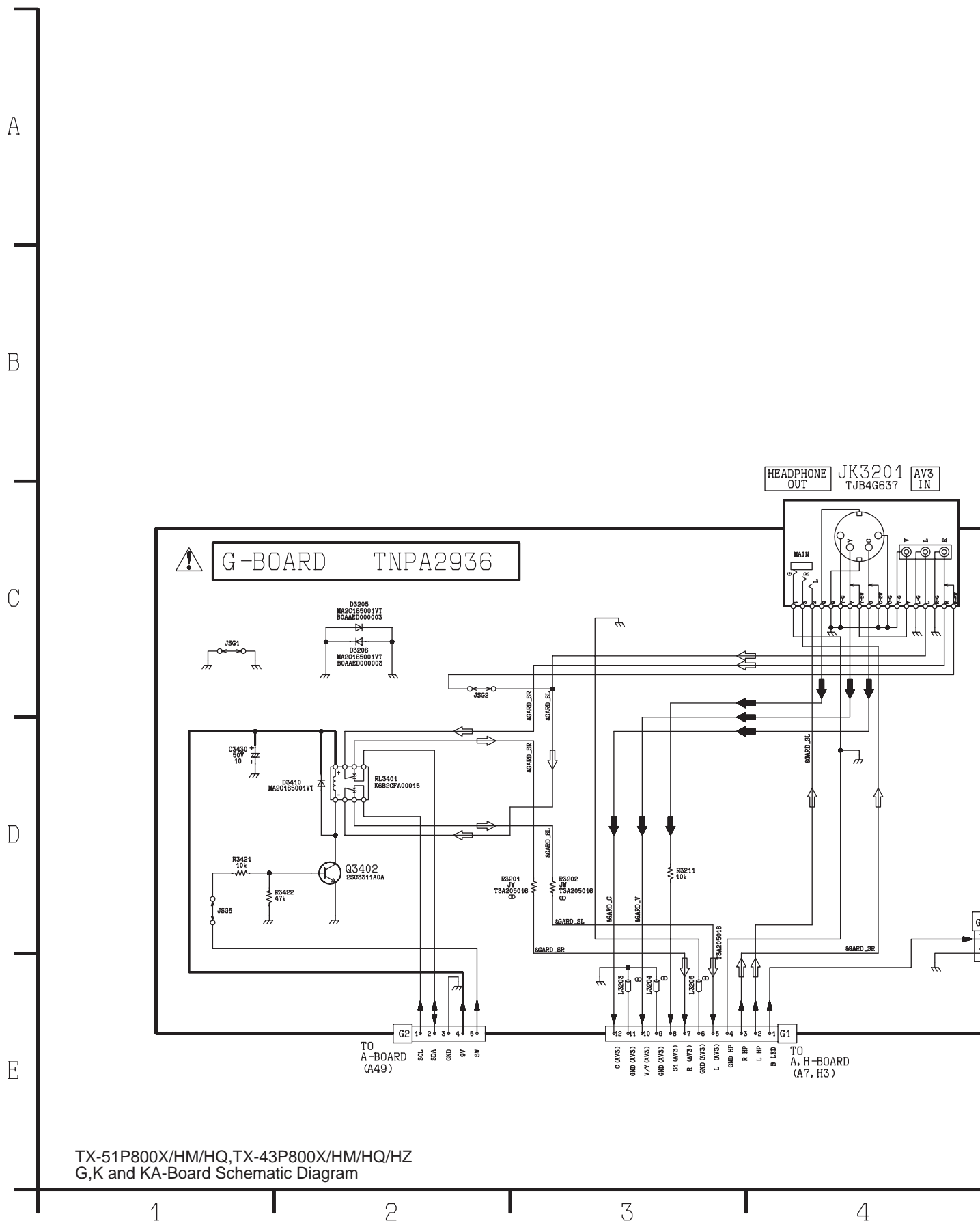
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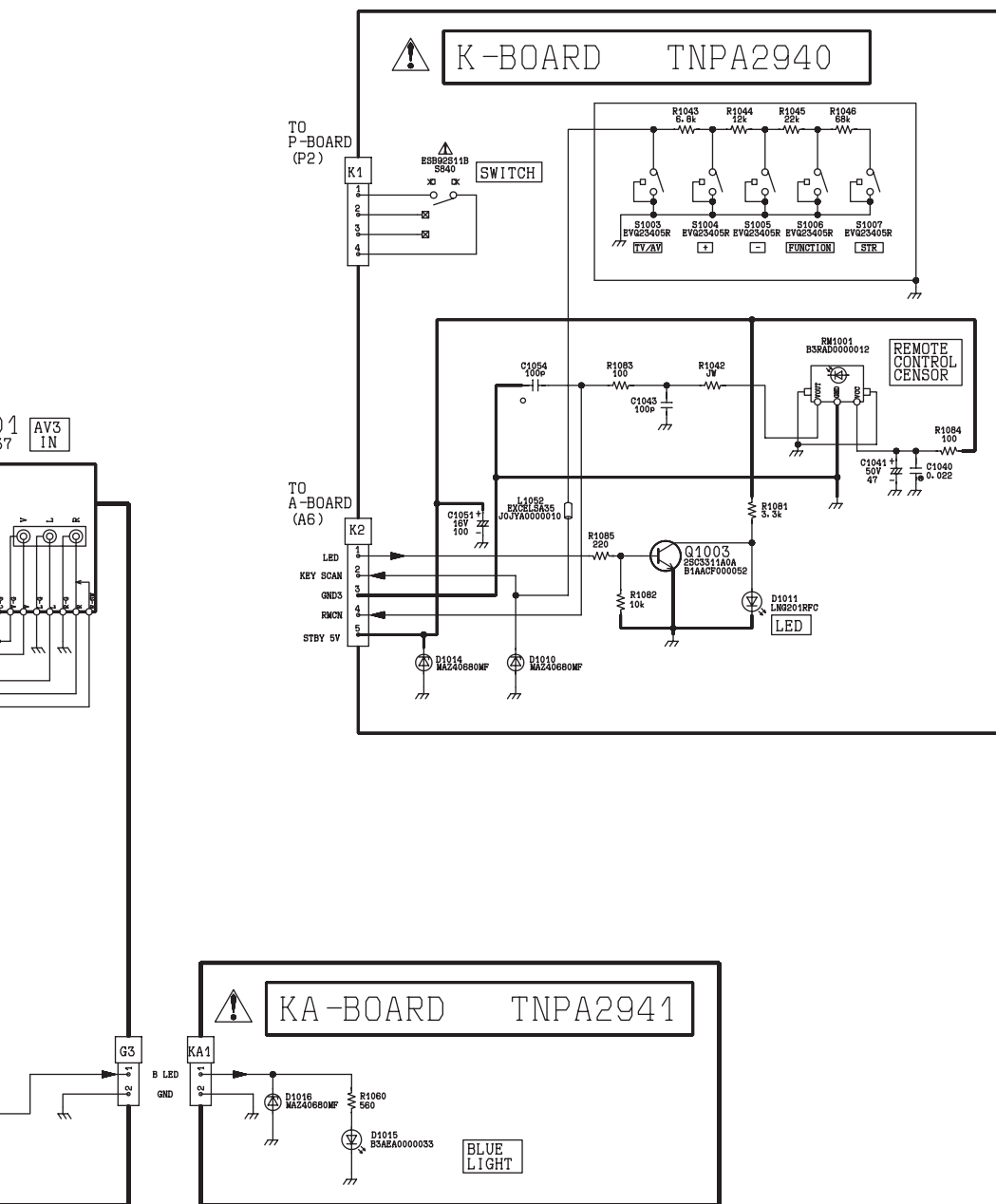
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17

14.23. G, K and KA Board Schematic Diagram





TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
G, K and KA-Board Schematic Diagram

5

6

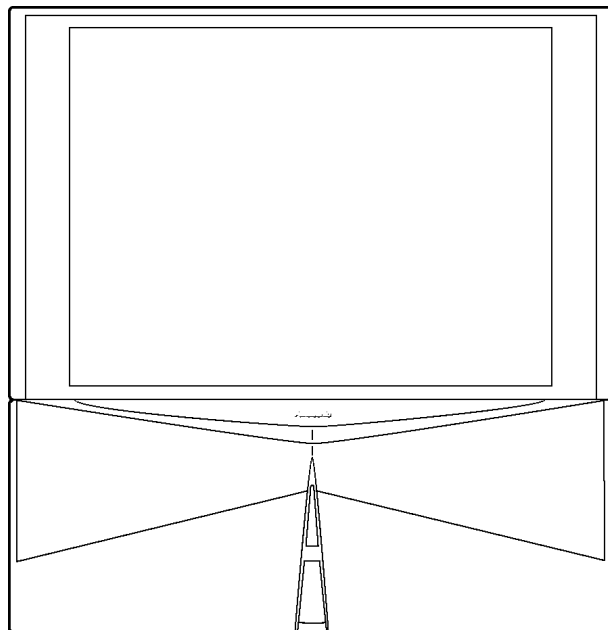
7





Service Manual

Projection Television



TX-51P800X
TX-51P800HM
TX-51P800HQ
TX-43P800X
TX-43P800HM
TX-43P800HQ
TX-43P800HZ
 GP1VP

Specifications

	TX-43P800H / TX-51P800H	TX-43P800X / TX-51P800X
Power Source	AC 220 - 240 V, 50 / 60 Hz	AC 110 - 240 V, 50 / 60 Hz
Power Consumption	Stand-by condition 0.5 W Normal viewing 175 W	Stand-by condition 0.5 W Normal viewing 175 W
	TX-43P800H / X	TX-51P800H / X
Dimensions (W × H × D)	1095 mm × 1267.5 mm × 547 mm	1298 mm × 1394 mm × 547 mm
Mass (Weight)	60 kg (Net)	66 kg (Net)
Remote control Transmitter	EUR511254 R6 (AA) Battery × 2	

Receiving System

21 Systems		Function
1	PAL B, G, H	Reception of broadcast transmissions and Playback from Video Cassette Tape Recorders.
2	PAL I	
3	PAL D, K	
4	SECAM B, G	
5	SECAM D, K	
6	SECAM K1	
7	NTSC M (NTSC 3.58/4.5 MHz)	

21 Systems		Function
15	PAL 60 Hz/5.5 MHz	Playback from Special Disc Players and Special VCR's
16	PAL 60 Hz/6.0 MHz	
17	PAL 60 Hz/6.5 MHz	
18	SECAM 60 Hz/5.5 MHz	
19	SECAM 60 Hz/6.0 MHz	
20	SECAM 60 Hz/6.5MHz	
21	NTSC 50 Hz/ 4.5 MHz	

21 Systems		Function
8	NTSC 4.43/5.5 MHz	Playback from Special VCR's
9	NTSC 4.43/6.0 MHz	
10	NTSC 4.43/6.5 MHz	
11	NTSC 3.58/5.5 MHz	
12	NTSC 3.58/6.0 MHz	
13	NTSC 3.58/6.5 MHz	
14	SECAM I	

Receiving Channels

Regular TV

VHF BAND

2-12 (PAL/SECAM B, K1)

0-12 (PAL B AUST.)

1-9 (PAL B N.Z)

1-12 (PAL/SECAM D)

1-12 (NTSC M Japan)

2-13 (NTSC M U.S.A)

UHF BAND

21-69 (PAL G, H, I/SECAM G, K, K1)

28-69 (PAL AUST.)

13-57 (PAL D, K)

13-62 (NTSC M Japan)

14-69 (NTSC M U.S.A)

CATV

S1-S20 (OSCAR)

1-125 (U.S.A CATV)

C13-C49 (JAPAN)

S21-S41 (HYPER)

Z1-Z37 (CHINA)

5A, 9A (AUST.)

Receiving Stereo System

NICAM I, NICAM B/G, NICAM D, A2 (German)

Tuning System

Frequency synthesizer

Auto Search Tuning

POSITION: 100 Position

DIRECT: 125 Position

Audio Output

40 W [20 W + 20 W] (10 % THD)

Speaker System

Woofer (13 cm) × 2 + Squawker (12 cm × 6 cm) × 2.....TX-43P800H/X

Woofer (13 cm) × 2 + Squawker (12 cm × 6 cm) × 2 + Tweeter (5 cm) × 2.....TX-51P800H/X

Headphones

3.5 mm Plug × 1

Aerial Impedance

75 Ω Unbalanced coaxial

Video / Audio / Component Terminals

AV 1, 2, 3, 4,

S Video In

Y: 1 V p-p, 75 Ω

C: 0.3 V p-p, 75 Ω

DVD (Y/ P_B/ P_R)

Video In

1 V p-p, 75 Ω

Audio In

Approx. 0.5 V 47 KΩ

Monitor Out

Video Out

1 V p-p, 75 Ω

Audio Out

Approx. 0.5 V, 1 KΩ

AV1 IN (Rear): S Video, Video, Audio L/R terminals

AV2 IN (Rear): Video or Y/ P_B/ P_R, Audio L/R terminals

AV3 IN (Front): S Video, Video, Audio L/R terminals

AV4 IN (Rear): Video or Y/ P_B/ P_R, Audio L/R terminals

Applicable signal to AV2, AV4 Y/ P_B/ P_R input terminals: 480i (525i), 576i (625i), 480P (525P) and 576P (625P)

Notes: Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 Safety Precautions

1.1. General Guide Lines

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits.
If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations, are properly installed.
4. When the receiver is not to be used for a long period of time, unplug the power cord from the AC outlet.
5. Potential, as high as **30.0kV**, is present when this monitor is in operation. Operation of the Projection Monitor without the rear cover involves the danger of a shock hazard from the power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the projection tube to the Projection Monitor chassis before handling the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.2. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Turn on the Projection Monitor's power switch.
3. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the projection monitor, such as screw heads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 4 MΩ and 20 MΩ.

When the exposed metal does not have a return path to the chassis, the reading must be ∞.

1.3. Leakage Current Hot Check (See Fig. 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2kΩ, 10W resistor, in series with an exposed metallic part on the projection monitor and an earth such as a water pipe.
3. Use an AC voltmeter, with high impedance type, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.0V rms. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the projection monitor should be repaired and rechecked before it is returned to the customer.

Hot-Check Circuit

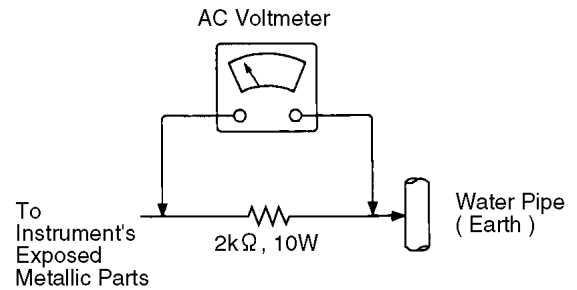


Fig. 1

1.4. X-Radiation

Warning :

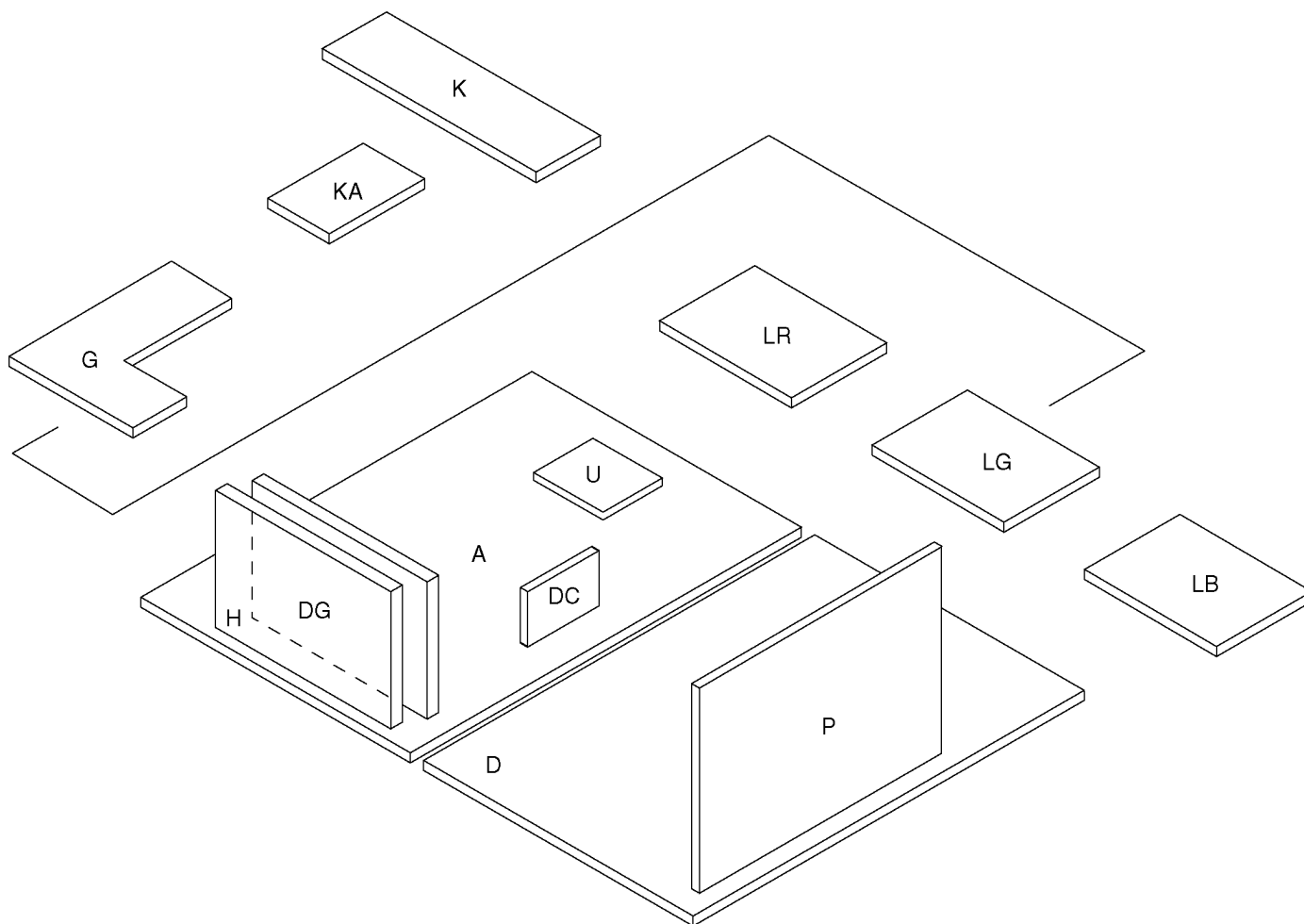
1. The potential sources of X-Radiation in projection monitor are the High Voltage section and the projection tube.
2. When using a projection tube test jig for service, ensure that jig is capable of handling **30.0kV** without causing X-Radiation.

Note:

It is important use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum.
2. Set the service switch to the service position.
3. Measure the High Voltage. The meter reading should indicate **30.0 ± 1.0 kV**. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
4. To prevent an X-Radiation possibility, it is essential to use the specified projection tube.

2 Chassis Board Layout

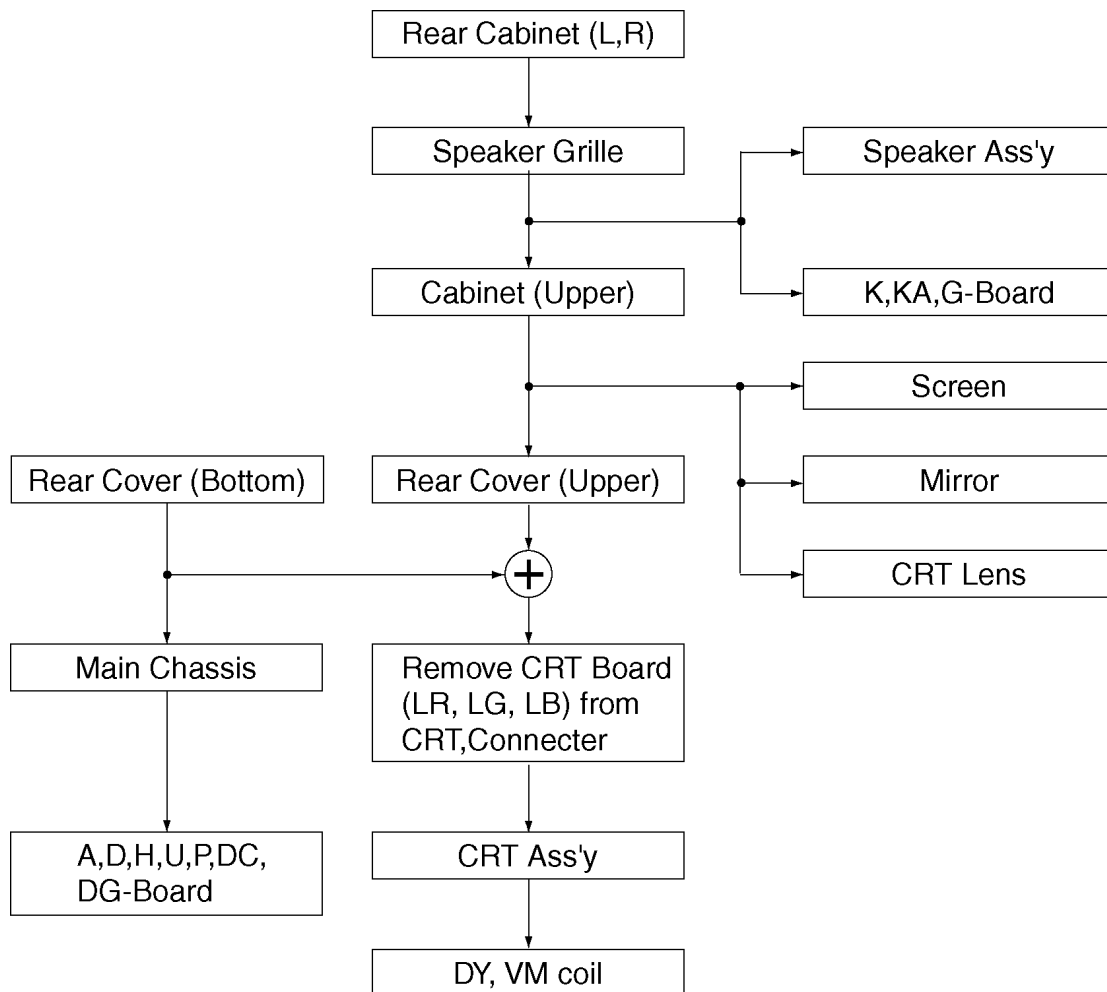


Board-Name	Function
A-Board	Main Signal, Digital Converter
P-Board	Line Filter
D-Board	Deflection, High Voltage
LR-Board	CRT Drive (R)
LG-Board	CRT Drive (G)
LB-Board	CRT Drive (B)
H-Board	Rear terminal
U-Board	MPU
DG-Board	Digital Core
DC-Board	Convergence
G-Board	Front Terminal
K-Board	Power Switch
KA-Board	Blue light

3 Disassembly for Service

This flowchart indicates disassembly items of the cabinet parts and circuit boards in order to find the items necessary for servicing, when reassembling, perform the procedures in the reverse order.

3.1. Disassembly Flowchart

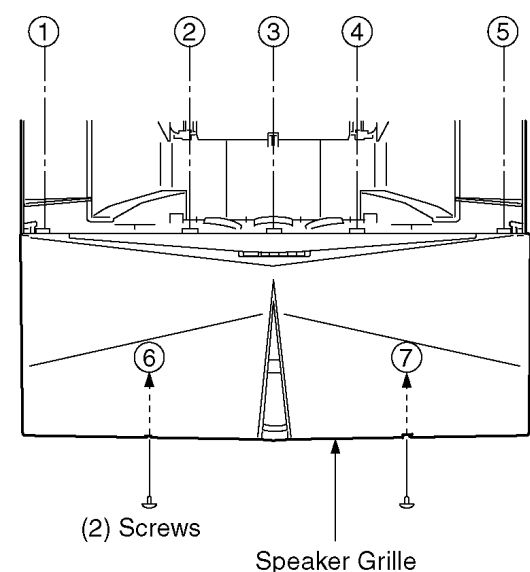
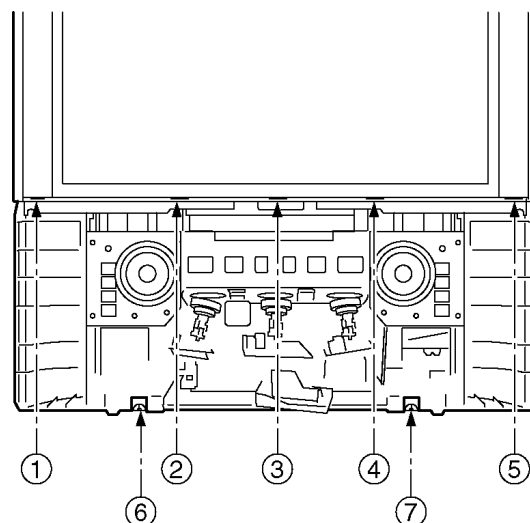
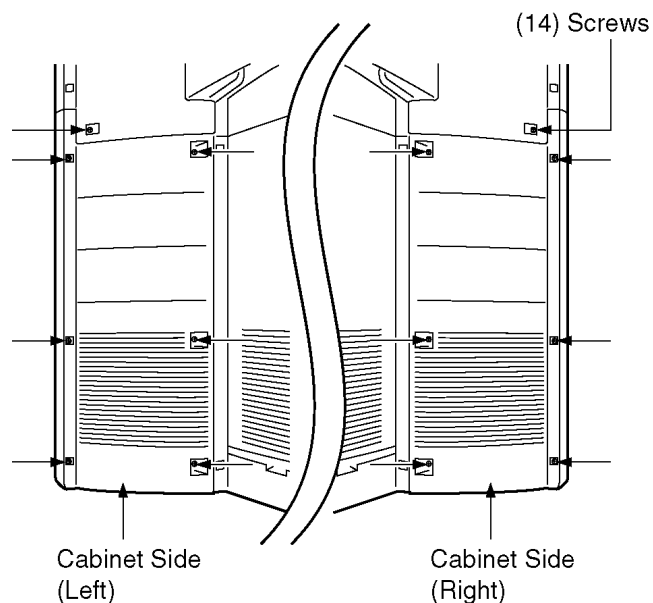


Note:

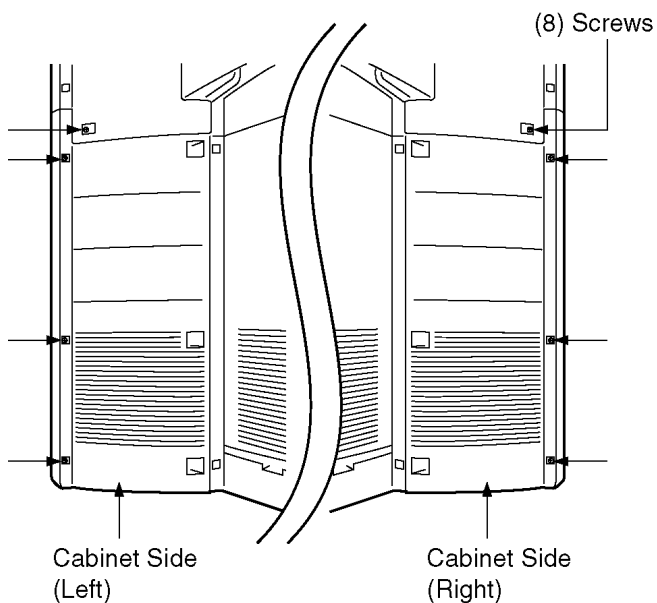
Board ground wires may have to be disconnected to disassemble some boards. All ground wires must be reconnected using jumper leads if necessary before power is applied to Receiver for service.

3.2. Cabinet Side (L, R)

1. Remove (14) screws.

**3.3. Speaker Grille**

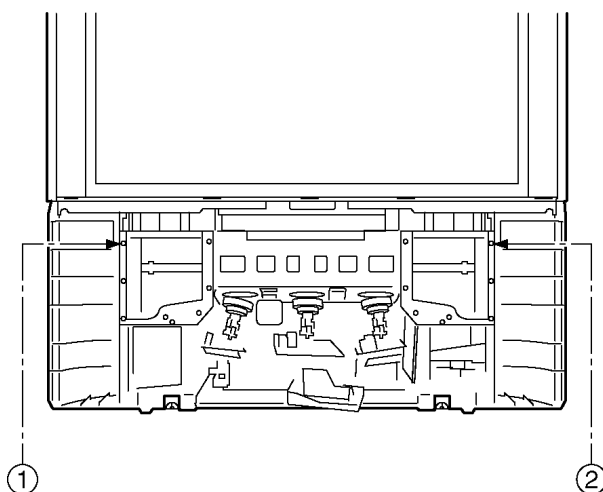
1. Remove (8) screws.

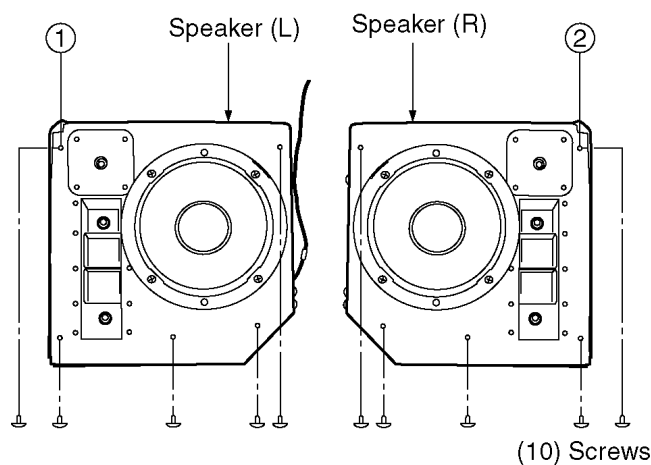


2. Remove (2) screws.

3.4. Speaker Ass'y

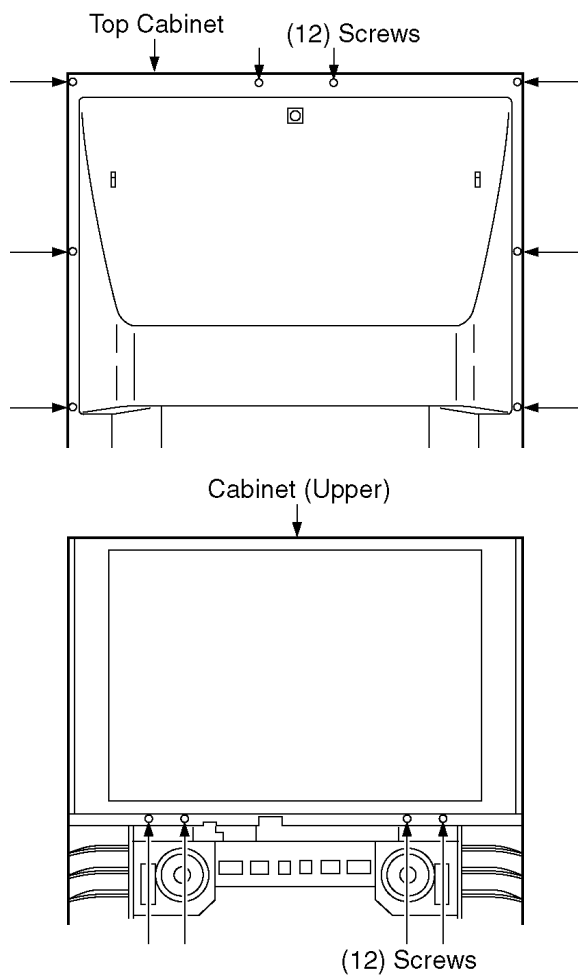
1. Remove (10) screws.





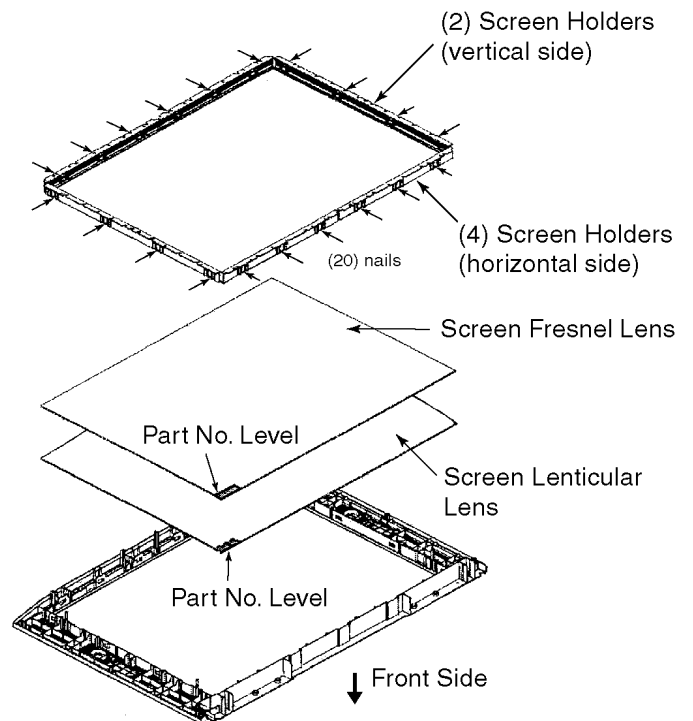
3.5. Cabinet (Upper)

1. Remove (12) Screws.



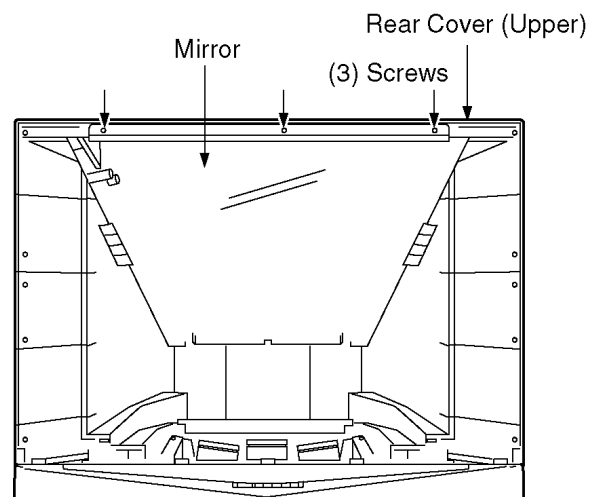
3.6. Screen

1. Remove (20) nails, and remove (2) Screen Holders (vertical side) and (4) Screen Holders (horizontal side).



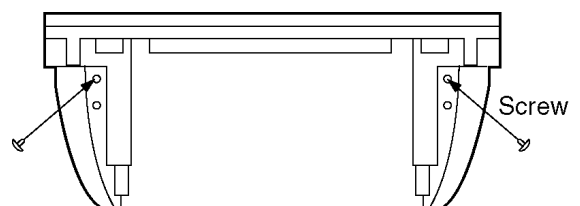
3.7. Mirror

1. Remove (3) screws.



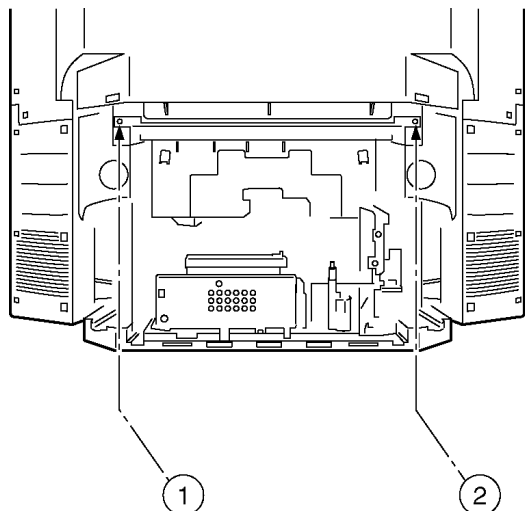
3.8. Rear Cover (Upper)

1. Remove the Cabinet (Upper).
2. Remove (2) screws.

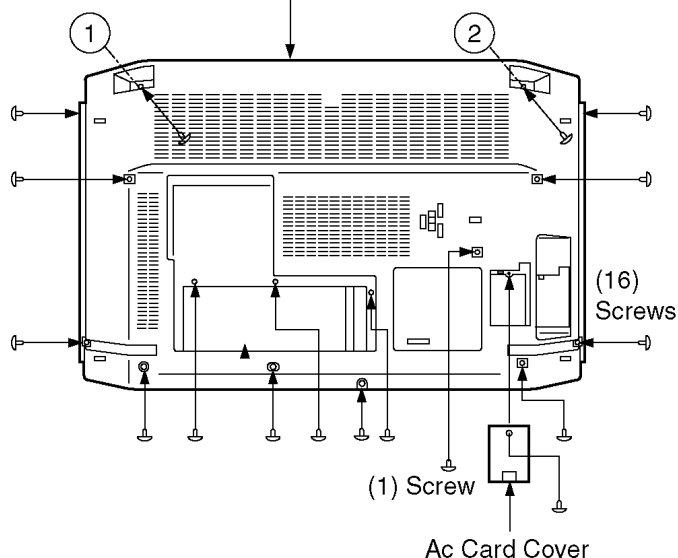


3.9. Rear Cover (Bottom)

1. Remove (16) screws.
2. Remove (1) screw.



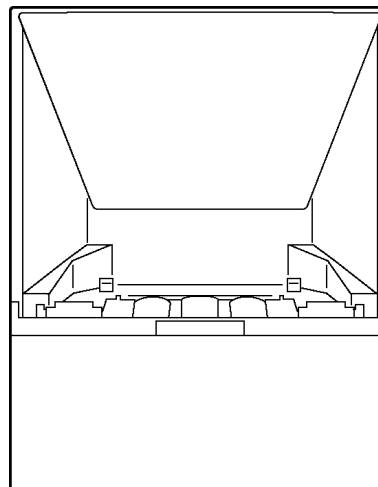
Rear Cover (Bottom)



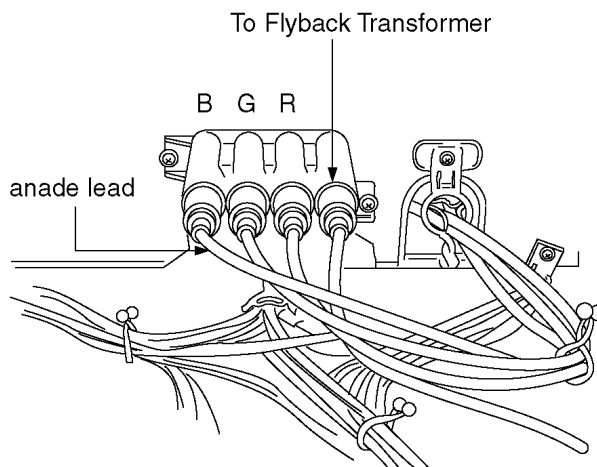
3.10. Disassembly For CRT Removal

To facilitate CRT replacement, the complete CRT mounting chassis does not need to be removed.

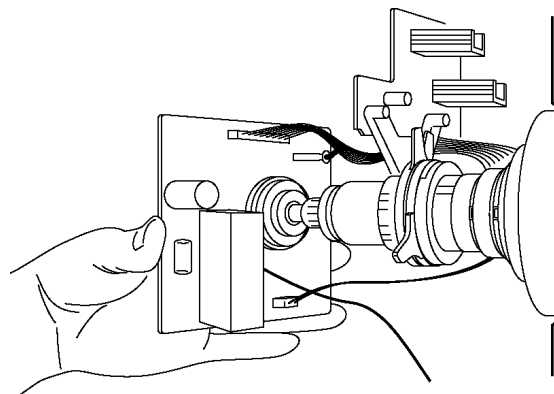
1. Remove the Screen Frame Ass'y, Decorative Panel and the Bottom Rear Cover Ass'y. (See Disassemble for Service).



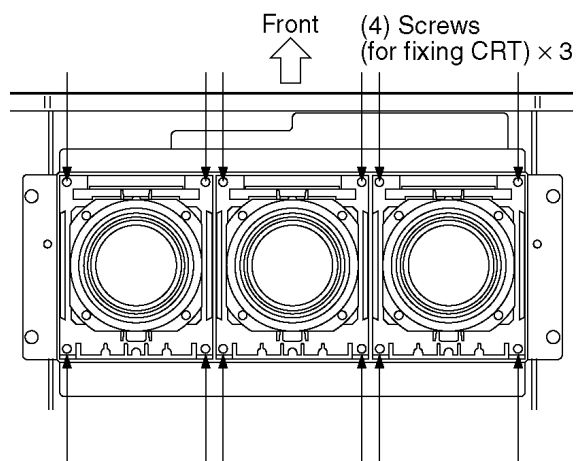
2. Unplug the defective CRT Dag (GND), from the CRT Board, LBGND for LB, LGGND for LG, LRGND for LR.
3. Remove lead wires (DY, VM coil) and anode lead wire from holders as necessary.



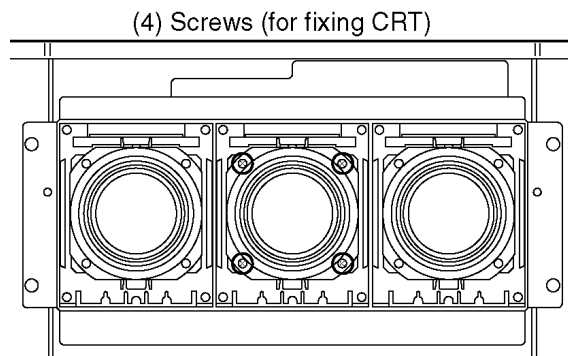
4. Remove the CRT Board from the defective CRT neck.



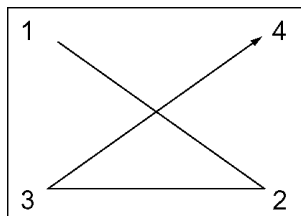
5. Note position of yoke with centering tabs and remove from defective CRT.
6. From the Top, remove (2) screws from the defective CRT.



7. Release CRT anode lead from CRT chassis wire clamp and all other wires from holders.
8. Wire the anode lead wire.
9. Lift out CRT assembly with lens assembly and other CRT neck assemblies.
10. Lay CRT face down on a soft cloth.
11. Remove CRT lens by removing (4) screws.



12. Install yoke and VM coil with other CRT neck assemblies on CRT neck in the same order and position as removed from the defective CRT.
13. Push yoke against bell of CRT and tighten the clamp just snug enough so it will not easily shift.
14. Assemble CRT focus lens assembly to new CRT with (4) screws. Make sure focus lens adjustment nut is in the same location as on other CRT focus lens.



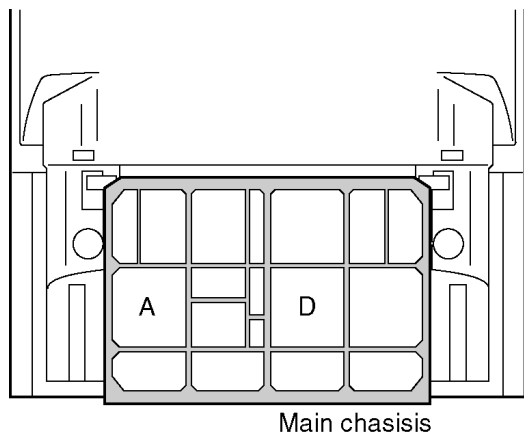
Note:

Please assemble with screws in the order shown in detail and tighten with same torque.

4 Service Hints

4.1. Service position for Main chassis

1. Remove the Rear Cover (Bottom) by removing (16) screws and (1) screws around its perimeter.
2. Remove lead wires and bundles from holders as necessary.
3. Pull out main chassis and stand it.

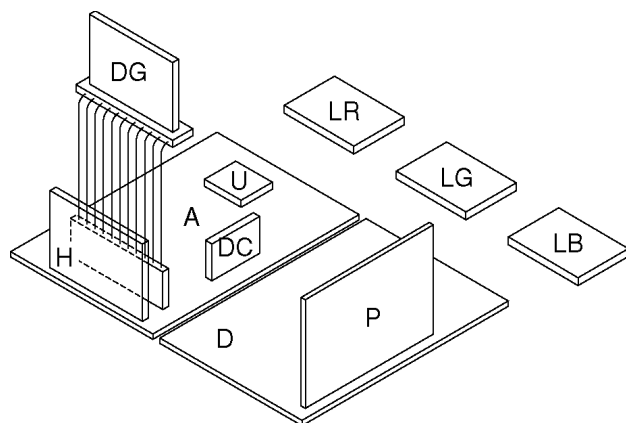


4.2. Service Position for DG-Board

1. Remove the each circuit board from A or D-Board.
2. Connect extension cables between individual circuit board and A or D-Board.

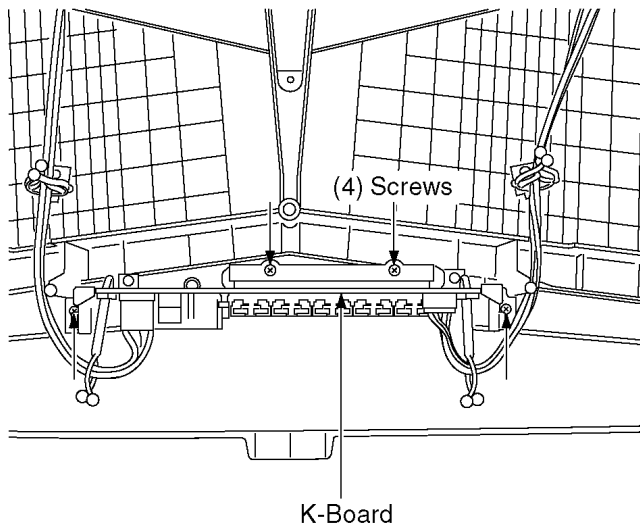
Note:

Extension cable kit is supplied as service fixtures and tools.
(Part No. TZSC0724)



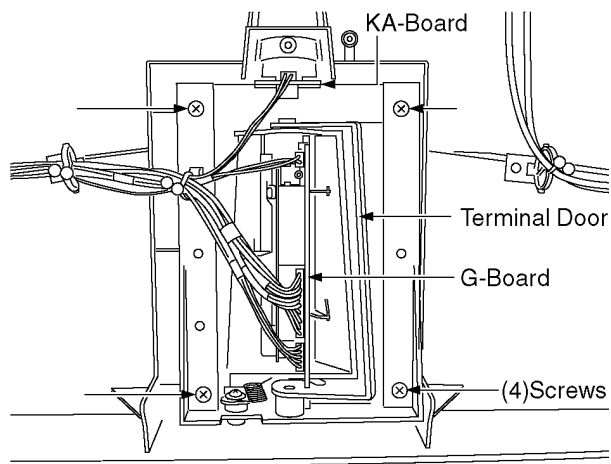
4.3. Service Position for K-Board

1. Remove the Speaker Grille.
2. Remove the K-Board by (4) screws.

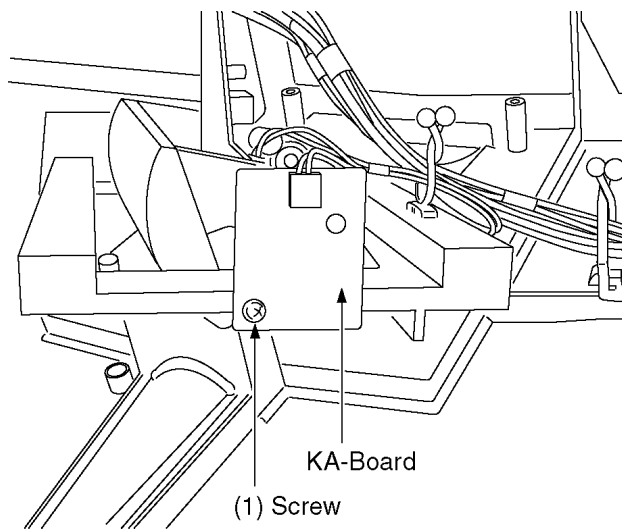


4.4. Service Position for KA-Board

1. Remove the Speaker Grille.
2. Remove the Terminal Door by (4) screws.

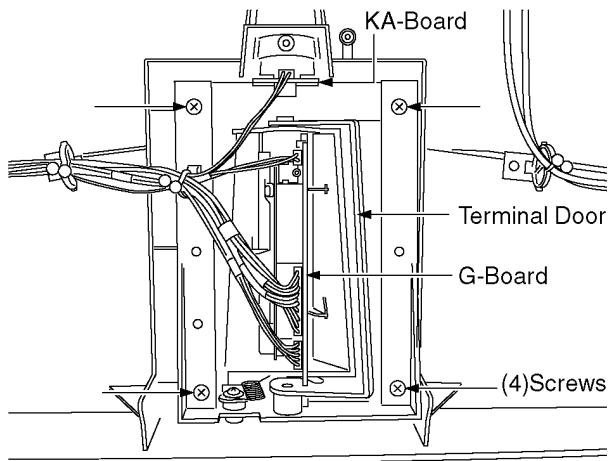


3. Remove the KA-Board by (1) screws.

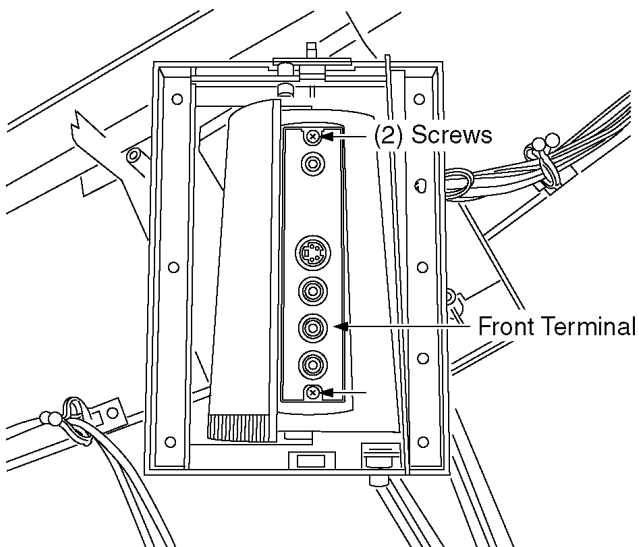


4.5. Service Position for G-Board

1. Remove the Speaker Grille.
2. Remove the Terminal Door by (4) screws.

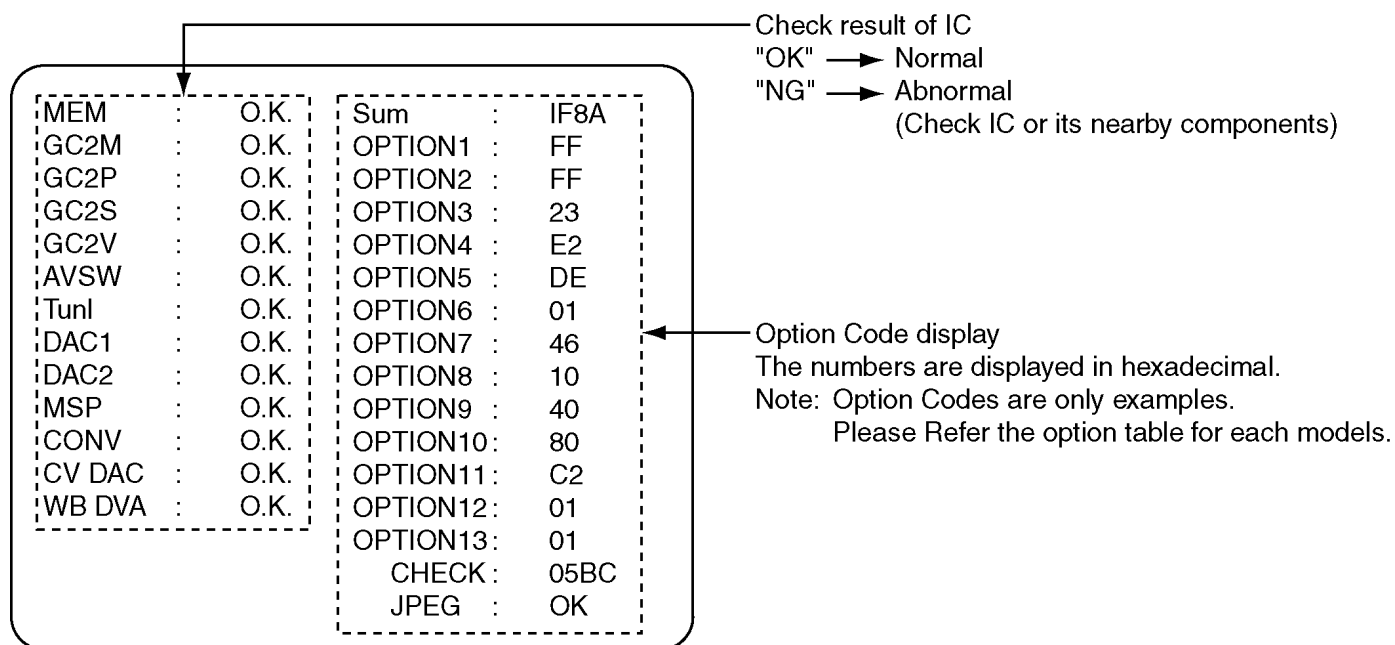


3. Remove the G-Board by (2) screws.



5 Self Check

1. Self-Check is used to automatically check the bus lines and hexadecimal code of the TV set.
2. To get into the Self -Check mode press the down (—/√) button on the customer controls at the front of the set, at the same time pressing the HELP button on the remote control, and the screen will show :



If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "O.K.".

Display	Ref. No.	Description	P.C.B.
MEMORY	IC1104	Memory	U-Board
GC2M	IC1301	Grobal Core MAIN	DG-Board
GC2P	IC1304	Grobal Core SUB1	DG-Board
GC2S	IC1302	Grobal Core SUB2	DG-Board
GC2V	IC1350	Grobal Core	DG-Board
AVSW	IC3003	AV Switch	H-Board
Tun1	TNR001	Tuner	A-Board
DAC1	IC1004	DAC control1	A-Board
DAC2	IC7110	DAC control2	DC-Board
MSP	IC2002	Stereo Decoder	A-Board
CONV	IC7107	Convergence	DC-Board
CV DAC	IC7301	Conv. DAC	A-Board
WB DAC	IC7702	WB DAC control	A-Board

6 Service Mode Function

MPU controls the functions switching for each IICs through IIC bus in this chassis. The following setting and adjustment can be adjusted by remote control in Service Mode.

6.1. How to enter SERVICE 1

1. In sound menu, set BASS to MAX, and set TREBLE to MINIMUM.
2. Simultaneously press INDEX button on remote control and VOLUME DOWN button [-] on the TV set.

6.2. How to enter SERVICE 2

1. Set the channel to CH99.
2. Press HOLD button on remote control.

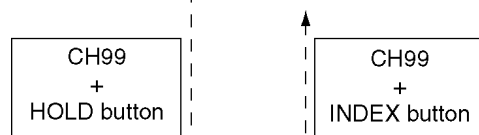
Note:

To exit to Service mode, press N or Power button on remote control.

SERVICE 1

Function	Average Data
H-Pos	438
V-Pos	132
H-Amp	28
V-Amp	119
Parabola	68
Trapezoid	131
H-Parallel	8
V-Linear	134
Top-Corner	180
Bottom-Corner	180
V-S-Correct	55
C-Correct	7
IVBL C	160
G-LIMIT	255
B-LIMIT	255
WB-B-G-ST1	255
R High(Drive)	0128
G High(Drive)	0128
B High(Drive)	0128
R Low(Cut off)	0690
G Low(Cut off)	0640
B Low(Cut off)	0640
Sub-Bright	168
Sub-Contrast	154
Sub-Colour	26
Sub-NTSC Tint	-4
SECAM B-Y	192
SECAM R-Y	70
Sub-NTSC Tint2	129
Sub SECAM B-Y	192
Sub SECAM R-Y	70
Video Gain 2	20
SDRAM-F	-1
DAF-H-PARA	312
DAF V-SAW	9
DAF V-PARA	28
Coarse Convergence	Access
Fine Convergence	Access

- Press the RED/GREEN button to step up/down through the functions.
- Press the YELLOW/BLUE button to change the function values.
- Press the STR button after each adjustment has been made to store the required values.

**SERVICE 2**

Function		Function	
Y/C Delay	04	OPTION 8	10
OPTION 1	FF	OPTION 9	40
OPTION 2	FF	OPTION 10	80
OPTION 3	23	OPTION 11	C2
OPTION 4	E2	OPTION 12	01
OPTION 5	DE	OPTION 13	01
OPTION 6	01	Hours	00005
OPTION 7	46		

6.3. Option Description

Options	HQ	HM	X		ASIA	
option1	6F	6F	6F			
0E0	b0	1	1	1	Colour system	Auto (1)
	b1	1	1	1		SECAM (1)
	b2	1	1	1		NTSC (1)
	b3	1	1	1		M.NTSC (1)
	b4	0	0	0	JPEG (1)	enable (1)
	b5	1	1	1	BBE (1)	enable (1)
	b6	1	1	1	BLUE LED (1)	enable (1)
	b7	0	0	0	YUV-SW (1)	enable (1)
option2	FF	FF	FF			
0E1	b0	1	1	1	CH Plan	ASIA / M.E. / HK / UK / CHINA (1)
	b1	1	1	1		NZ/INDNES (1)
	b2	1	1	1		AUSTRALIA (1)
	b3	1	1	1		E.EUROPE (1)
	b4	1	1	1		SPECIAL (1)
	b5	1	1	1		AMERICA (1)
	b6	1	1	1		CATV (1)
	b7	1	1	1		JAPAN (1)
option3	21	21	21			
0E2	b0	1	1	1	sub picture	without sub-picture (0), with sub-picture (1)
	b1	0	0	0	2tuner	2tuner (1), 1tuner (0)
	b2	0	0	0	VGA	enable (1)
	b3	0	0	0	AV5	enable (1)
	b4	0	0	0	Wide (16:9)	16:9 (1), 4:3 (0) (change multi window / aspect operation)
	b5	1	1	1	HYPER	UHF only (0), UHF/VHF (1)
	b6	0	0	0	SIF	4.5 / 5.5 / 6.0 / 6.5 (0), 5.5 / 6.0 / 6.5 (1)
	b7	0	0	0		5.5 / 6.5 (2), 6.0 / 6.5 (3)
option4	E2	E2	E2			
0E3	b0	0	0	0	A2 enable	4.5 (1)
	b1	1	1	1		5.5 (1)
	b2	0	0	0		6.0 (1)
	b3	0	0	0		6.5 (1)
	b4	0	0	0	NICAM enable	4.5 (1)
	b5	1	1	1		5.5 (1)
	b6	1	1	1		6.0 (1)
	b7	1	1	1		6.5 (1)
option5	DE	DE	DE			
0E4	b0	0	0	0	A2 select 6.5MHz	5.742MHz (0) 6.742MHz (1)
	b1	1	1	1	NICAM priority	ASIA / M.E. (1)
	b2	1	1	1		HK / UK (1)
	b3	1	1	1		CHINA (1)
	b4	1	1	1		NZ / INDN (1)
	b5	0	0	0		AUSTRA (1)
	b6	1	1	1		E.EURO (1)
	b7	1	1	1		SPECIAL (1)

Options	HQ	HM	X		ASIA	
option6	00	00	02			
0E5	b0	0	0	0	Ext. HV input	Without HV input (0) / with HV input (1)
	b1	0	0	1	SASO enable	SASO enable (1)
	b2	0	0	0	Noise mute	Noise mute enable (0)
	b3	0	0	0	Monitor out AV1 mute	Monitor out AV1 mute (1)
	b4	0	0	0	Tuner no refresh	Refresh tuner (0), no refresh (1)
	b5	0	0	0	Tuner	MACO tune r(0), ALPS tuner (1)
	b6	0	0	0	free	
	b7	0	0	0		No motion cotrol in film mode (1)
option7	C6	C6	C6			
0E6	b0	0	0	0	Power up EC-Mode	Power on EC enable (1)
	b1	1	1	1	CH Blanking	Blanking enable (1)
	b2	1	1	1	AV Blanking	Blanking enable (1)
	b3	0	0	0	Auto WIDE	WSS enable only in aspect Auto (0), WSS always enable (1)
	b4	0	0	0	Volume correction	TV Volume correction enable (1)
	b5	0	0	0	AVLink	Q-Link on/off selectable in menu (1)
	b6	1	1	1	MPX/NICAM display	Display NICAM (0), Display MPX (1)
	b7	1	1	1	Owner ID	enable (1)
option8	D0	50	50			
0E7	b0	0	0	0	Teletext CH Refrech	enable (1)
	b1	0	0	0	Geomagnetic Sensor	Geomagnetic sensor enable (1)
	b2	0	0	0	Geomagnetic Polarity	Geomagnetic polarity +(0), -(1)
	b3	0	0	0	Rf Attenuater menu	Enable (1)
	b4	1	1	1	Fine tuning	Enable (1)
	b5	0	0	0	Search speed	Slow (1) Fast (0)
	b6	1	1	1	TEXT FLOF	Reserved
	b7	1	0	0	TEXT TOP	TOP enable (1)
option9	40	40	40			
0E8	b0	0	0	0	Dolby	Dolby enable (1)
	b1	0	0	0	3D Subwoofer	Subwoofer enable(1) Dolby model should be 0.
	b2	0	0	0	Dolby Virtual	Dolby Virtual enable (1)
	b3	0	0	0	Amp	with Amp (0) / without Amp (1)
	b4	0	0	0	Sound Ext. DA	without Sound Ext. DA (0) / with Sound Ext. DA (1)
	b5	0	0	0	Shopping Sound menu	MUSIC (0) / CINEMA (1)
	b6	1	1	1	Volume curve	Volume curve1 (0), curve2 (1)
	b7	0	0	0	L1PSYNC	L1PSYNC enable (1)
option10	80	80	80			
0E9	b0	0	0	0	OSD language	English Chinese Arabia (0), English Russian (1)
	b1	0	0	0	ACI all country	not use
	b2	0	0	0	ACI auto MP	not use
	b3	0	0	0	ACI offset	not use
	b4	0	0	0	Blue Back	
	b5	0	0	0	BC Safety	Reserved
	b6	0	0	0	Protect XPR	Reserved
	b7	1	1	1	Protect 5V detect	Protection input enable (1)

Options Model		HQ	HM	X		ASIA
option11		42	42	42		
0EA	b0	0	0	0	Shop mode	enable (1)
	b1	1	1	1	Picture Shift	enable (1)
	b2	0	0	0	Sub Headphone	enable (1)
	b3	0	0	0	User aspect Just	enable (1)
	b4	0	0	0	User aspect 14:9	enable (1)
	b5	0	0	0	NICAM C4 bit	enable (1)
	b6	1	1	1	ID-1	enable (1)
	b7	0	0	0	1080I	enable (1)
option12		03	01	01	Area Option	
0EB	b0	1	1	1	Asia	Asia (1), europe (0)
	b1	1	0	0	Australia	Australia (1)
	b2	0	0	0	Ireland/India	India (1)
	b3	0	0	0	UK	not use
	b4	0	0	0	MELCOA	MELCOA (1)
	b5	0	0	0	28 inch	28 inch (1) when only Large size=0, Wide=1, PTV=0
	b6	0	0	0	LED	enable (1)
	b7	0	0	0	free	
option13		01	01	01	Temporary	
0EC	b0	1	1	1	GC2V ES2	ES2 (1), BS1 (0)
	b1	0	0	0	UK Tuner IF 38.9	38.9 MHz (0), 39.5 MHz (1)
	b2	0	0	0		
	b3	0	0	0		
	b4	0	0	0		
	b5	0	0	0		
	b6	0	0	0		
	b7	0	0	0		

7 CRT Set Up

Caution:

Insure yoke plugs on the A-Board are reconnected before turning the Receiver ON to prevent damage to the horizontal output transistor and/or CRTs.

7.1. Dynamic Focus Adjustment

1. Focus adjustments should be performed after 1 hour of aging.
2. Use oscilloscope with 100 : 1 probe.
3. Apply PAL monoscope pattern.
4. Set scan mode to 100Hz.
5. Set the picture menu to Dynamic.
6. Adjust the Red, Blue and Green focus VR on the focus block for best focus of overall picture of each CRT. (Fig. 2)

Focus Pack

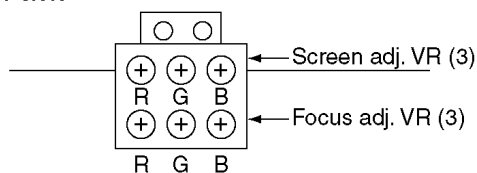


Fig. 2

7. Connect the scope probe to TPD20, GND to TPD21. Scope set at 20V/div & 5m sec./div.
8. Adjust V-PARA (Service mode1) so that waveform (A) is $380V \pm 20V$. (Fig. 3)
9. Adjust H-PARA (Service mode1) so that waveform (B) is $560V \pm 40V$. (Fig. 3)

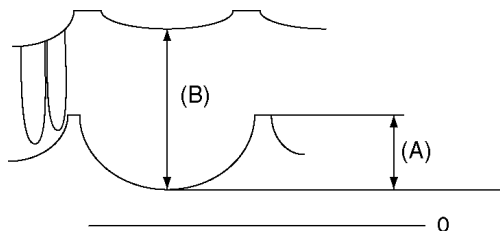


Fig. 3

10. Set scan mode to PAL 100V Comp.
11. Set the picture menu to Dynamic.
12. Adjust V-PARA (Service model) so that waveform (A) is $180V \pm 20V$. (Fig. 3)
13. Adjust H-PARA (Service model) so that waveform (B) is $560V \pm 20V$. (Fig. 3)
14. Set scan mode to Progressive.
15. Repeat step 6-9.
16. Apply NTSC monoscope pattern.
17. Set scan mode to Progressive.
18. Repeat step 6-9.
19. Set scan mode to 100Hz.
20. Repeat step 6-9.
21. Proceed with Focus Adjustments.

7.2. Electrical Focus Adjustment

1. Receive a monoscope pattern.
2. Cover the Red and Blue CRT, projecting Green only.
The electrical focus controls are located on the front. Adjust the Green Focus VR for best focus of overall picture. (Fig. 2)
3. Repeat for Red focus VR while projecting Red only.
4. Repeat for Blue. (Best focus at bottom left corner of screen)

7.3. Optical Lens Focus Adjustment

Note:

This adjustment normally should not require resetting unless the lens has been replaced or adjustment has changed.

1. Optical focus adjustment is located on the top of each CRT lens system. Loosen the adjustment knurled locking knob. (Fig. 4)

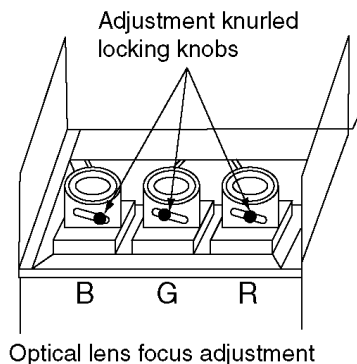


Fig. 4 (Rear view)

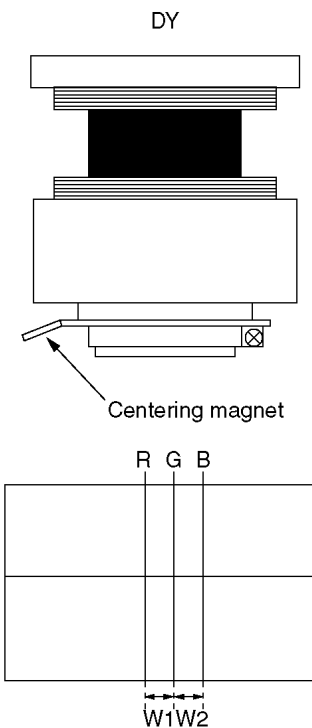
2. Turn the Receiver ON apply and view a monoscope pattern.
3. Adjust each lens focus for best focus while viewing each CRT.
4. Cover the Red and Blue CRT, projecting green only. Rotate the Green lens for best focus around screen center area.
5. Do the same for the Red focus lens while projecting Red only.
6. Repeat for Blue.

7.4. Centering Magnet Adjustment

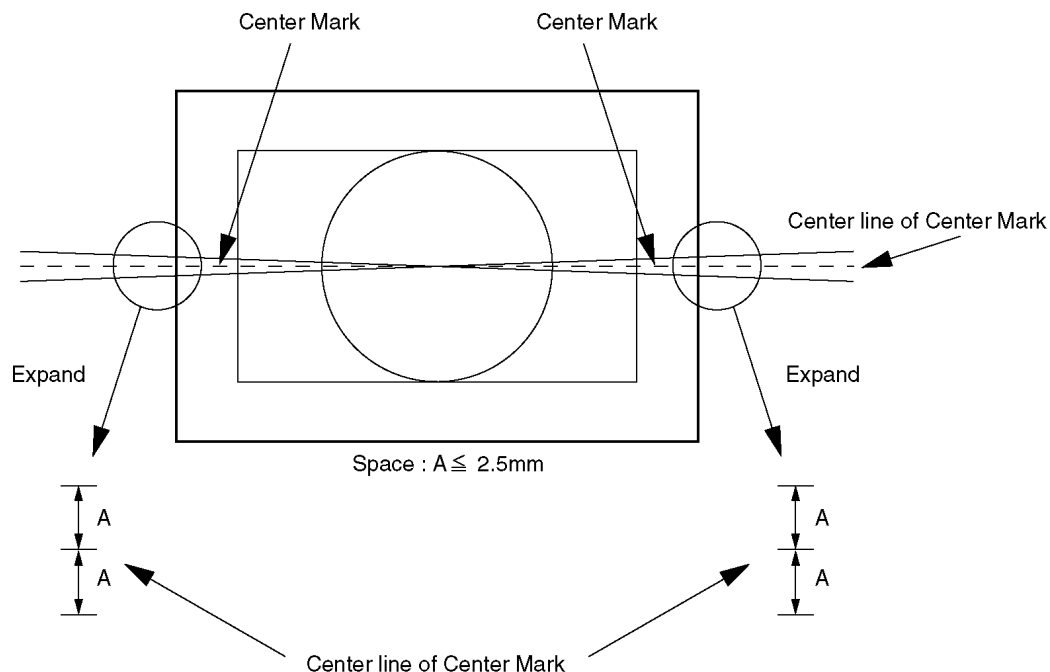
1. Receive a monoscope pattern.
2. Set that Fine convergence data (Service mode1) is clear (no correction).
3. Set that V-Pos data (Service mode1) is [130].
4. Set that H-Pos data (Service mode1) is [438].
5. Set that H-Parallel data (Service mode1) is [8].

Procedure:

1. Cover the Red, Blue CRT lens, projecting Green only.
2. Adjust green centering magnet (DY) if the projected green horizontal/vertical line does not line up with the screen horizontal/vertical center line.
3. Cover the Green, Red CRT lens, projecting Blue only.
4. Repeat step 2. for blue.
5. Cover the Green, Blue CRT lens, projecting Red only.
6. Repeat step 2. for red.
7. Cover the Red, Blue CRT lens, projecting Green only.
8. Adjust green centering magnets until the center of the monoscope pattern line up with the screen center line.
9. Cover the Green, Red CRT lens, projecting Blue only.
10. Adjust blue centering magnets to position the center of the blue raster W2 away from the center of the green raster.
11. Cover the Green, Blue CRT lens, projecting Red only.
12. Adjust red centering magnets to position the center of the red raster W1 away from the center of the green raster.



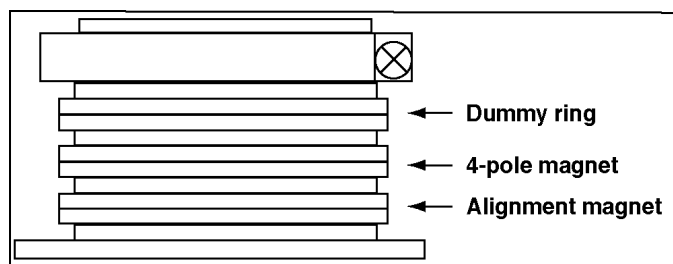
51inch	W1=17.5mm ± 2.5mm W2=40.0mm ± 2.5mm
43inch	W1=17.5mm ± 2.5mm W2=40.0mm ± 2.5mm



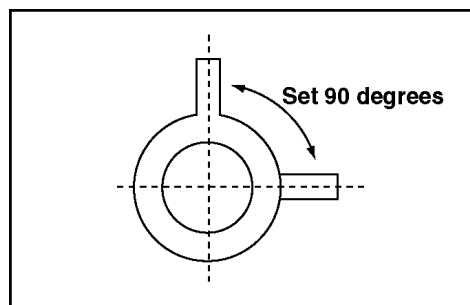
7.5. Alignment magnet Adjustment

Preparation:

1. Receive an cross hatch pattern with dots (pincushion).
2. Loosen the centering magnets screws.
3. Position the longer tab of the four-pole magnet to 90 degrees (uncorrected position).

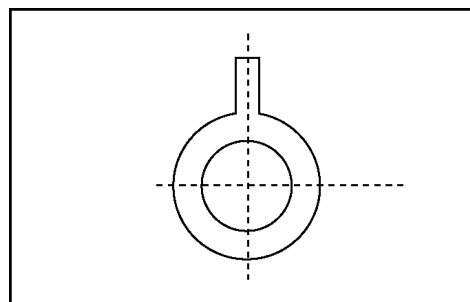


VM Coil with focus correction magnet



4-pole magnet

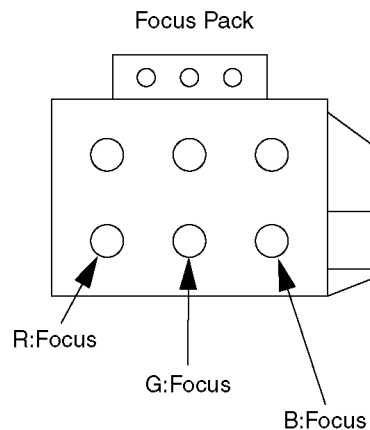
4. Position the long tab of all alignment magnets and of the dummy ring together in an uncorrected position.



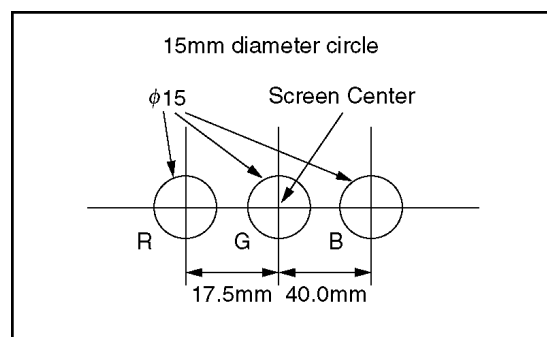
Alignment magnet (or dummy ring)

Procedure:

1. Receive an cross hatch pattern with dots.
2. Cover the Red, Blue CRT lens, projecting Green only.
3. Turn the green electrical focus adjustment VR (on focus pack) fully counterclockwise and note the position of the dots at the center of the picture.
4. Turn the green electrical focus adjustment VR fully clockwise.
5. Adjust the four pole magnets until the shape of the dot at the center of the screen is circular.
6. Adjust for best green electrical focus with green electrical focus adjustment VR.
7. Cover the Green, Red CRT lens, projecting Blue only.
8. Repeat step 4. ~ step 6. for blue electrical focus.
9. Cover the Green, Blue CRT lens, projecting Red only.
10. Repeat step 4. ~ step 6. for red electrical focus.



11. Receive an monoscope pattern.
12. Cover the Red, Blue CRT lens, projecting Green only.
13. If the center of the monoscope pattern is not inside the 15mm circle, shown in below, adjust the centering magnets. Repeat the alignment magnet adjustments and four pole magnet adjustments (step 1. ~ step 6.)



Centering magnet adjustment

14. Cover the Green, Blue CRT lens, projecting Red only.
15. Repeat step 13. for the red.
16. Cover the Green, Red CRT lens, projecting Blue only.
17. Repeat step 13. for the blue.
18. Following adjustments, fix the centering magnets of DY, dummy rings of VM coil, four pole magnets of VM coil and the alignment magnets of VM coil to prevent them from moving.

8 Deflection Adjustment

Caution

1. The following adjustment have to be carried out one with **PAL signal (100i/50p)** and with **NTSC signal (60p/120i)**.
2. Deflection adjustment need to set the Coarse/Fine Convergence to Zero Correction some time.
3. Before Deflection Adjustment are attempted, CRT Set up, Electrical Focus and Optical Lens Focus adjustment must be completed.

8.1. PAL 100Hz mode (100i)

8.1.1. Preparation

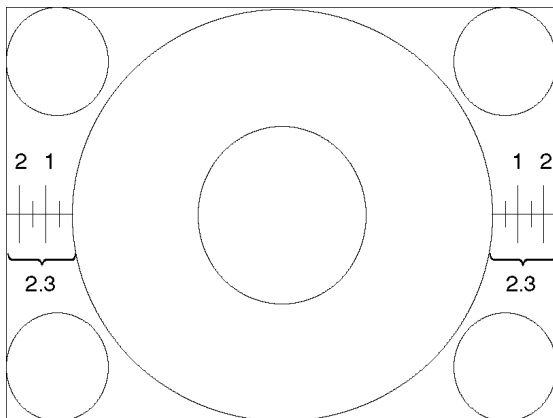
1. Receive PAL monoscope pattern.
2. Set scan mode to 100Hz.
3. Set the Picture Menu to NORMAL.
4. Set the TV to Service Mode 1.
5. Set the Data of Service Mode 1 as follow

H-Pos	438	Top-Corner	170
V-Pos	130	Bottom-Corner	173
H-Parallel	8	V-S-Correct	92
IVBL C	108	C-Correct	6

6. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
7. Push [HELP] button so that projecting Green only.

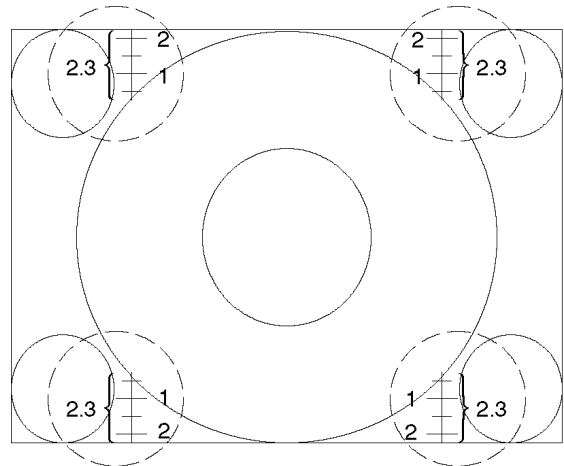
8.1.2. H-Pos and H-Amp Adjustment

1. Adjust Monoscope pattern for center of the screen by H-Pos control.
2. Adjust Horizontal amplitude for 2.3 ± 0.1 division of a scale by H-Amp control.

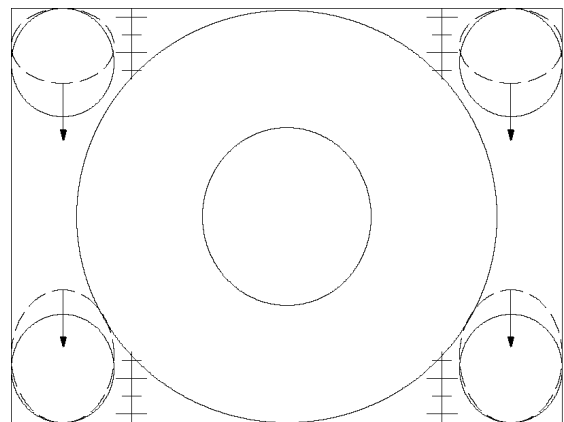


8.1.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.3 ± 0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center , if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

8.1.4. Parabola and Trapezoid Adjustment

1. Receive PAL cross hatch pattern.
2. Adjust the vertical line to straight line by Parabola control.
3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

8.2. PAL 100Hz V Comp mode (100i)

8.2.1. Preparation

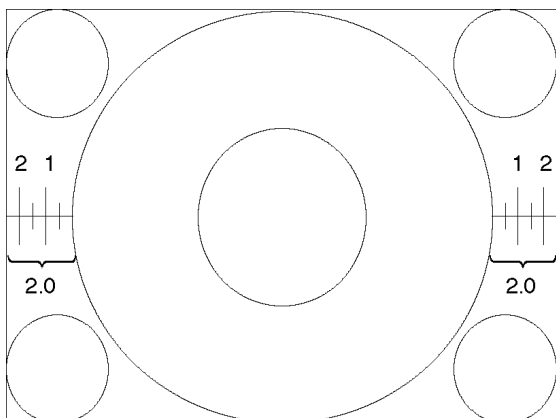
1. Receive PAL monoscope pattern.
2. Set scan mode to 100Hz.
3. Set the Picture Menu to NORMAL.
4. Set the TV to Service Mode 1.
5. Set the Data of Service Mode 1 as follow

H-Pos	438	Top-Corner	168
		Bottom-Corner	173
H-Parallel	8	V-S-Correct	45
IVBL C	45	C-Correct	7

6. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
7. Push [HELP] button so that projecting Green only.

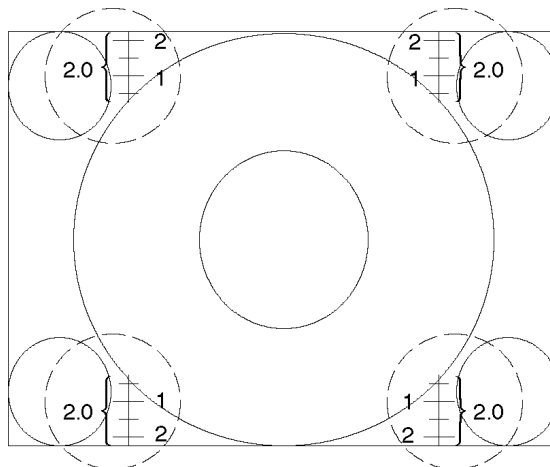
8.2.2. H-Pos and H-Amp Adjustment

1. Adjust Monoscope pattern for center of the screen by H-Pos control.
2. Adjust Horizontal amplitude for 2.0 ± 0.1 division of a scale by H-Amp control.

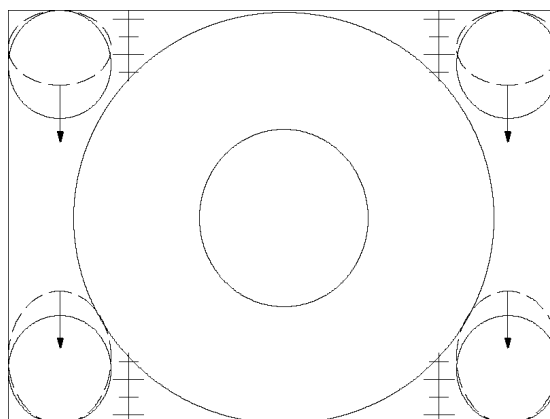


8.2.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.3 ± 0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

8.2.4. Parabola and Trapezoid Adjustment

1. Receive PAL cross hatch pattern.
2. Adjust the vertical line to straight line by Parabola control.
3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

8.3. PAL Progressive mode (50p)

8.3.1. Preparation

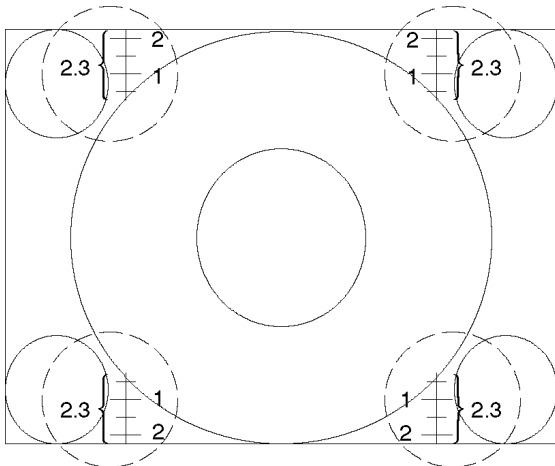
1. Receive PAL monoscope pattern.
2. Copy the Data of PAL 100Hz mode (100i) to PAL Progressive mode (50p)
3. Set scan mode to progressive.
4. Set the Picture Menu to NORMAL.
5. Set the TV to Service Mode 1.
6. Set the Data of Service Mode 1 as follow

H-Parallel	8	Bottom-Corner	173
IVBL C	90	V-S-Correct	90
Top-Corner	173	C-Correct	6

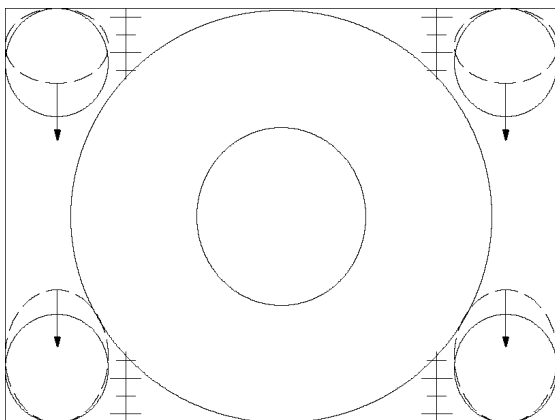
7. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
8. Push [HELP] button so that projecting Green only.

8.3.2. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.3 ± 0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

8.4. NTSC Progressive mode (60p)

8.4.1. Preparation

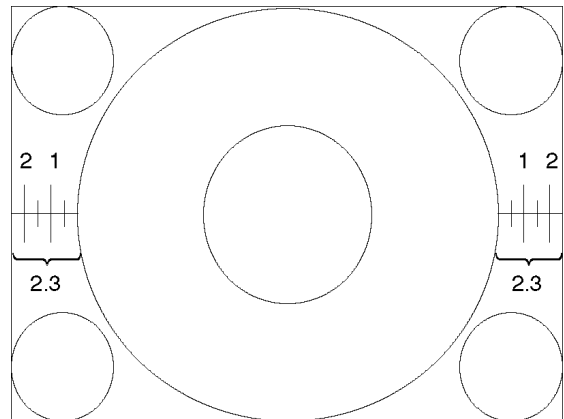
1. Receive NTSC monoscope pattern.
2. Set scan mode to Progressive.
3. Set the Picture Menu to NORMAL.
4. Set the TV to Service Mode 1.
5. Set the Data of Service Mode 1 as follow

H-Parallel	8	Bottom-Corner	167
IVBL C	95	V-S-Correct	92
Top-Corner	176	C-Correct	6

6. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
7. Push [HELP] button so that projecting Green only.

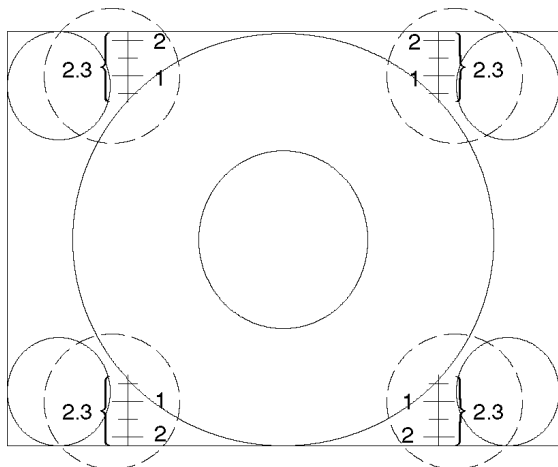
8.4.2. H-Pos and H-Amp Adjustment

1. Adjust Monoscope pattern for center of the screen by H-Pos control.
2. Adjust Horizontal amplitude for 2.3 ± 0.1 division of a scale by H-Amp control.

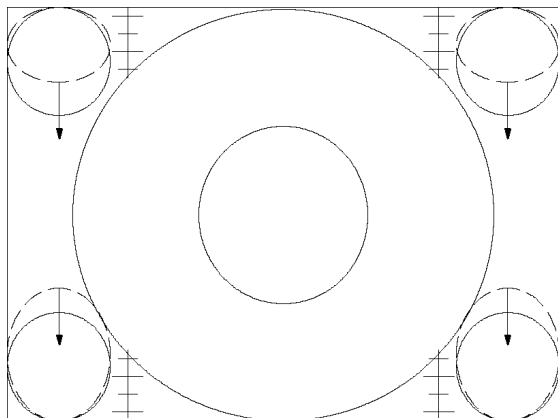


8.4.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.3 ± 0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

8.4.4. Parabola and Trapezoid Adjustment

1. Receive NTSC cross hatch pattern.
2. Adjust the vertical line to straight line by Parabola control.
3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

8.5. 525p Deflection Adjustment / Confirmation

8.5.1. V / H-Deflection confirmation

1. Receive 525p signal.
2. Confirm V / H-Deflection is normal.

8.5.2. H-Pos confirmation / Adjustment

1. Receive 525p signal.
2. Confirm H-Pos and if need, adjust H-Pos.

8.6. 625p Deflection Adjustment / Confirmation

8.6.1. V / H-Deflection confirmation

1. Receive 625p signal.
2. Confirm V / H-Deflection is normal

8.6.2. H-Pos confirmation / Adjustment

1. Receive 625p signal.
2. Confirm H-Pos and if need, adjust H-Pos.

9 Adjustment Procedure

9.1. Cut off Adjustment

Preparation

Picture Menu : Dynamic WB-B-G-ST1 : 255

C Temp : Standard High-RGB : 128

AI : ON Low-RGB : 640

P-NR : AUTO

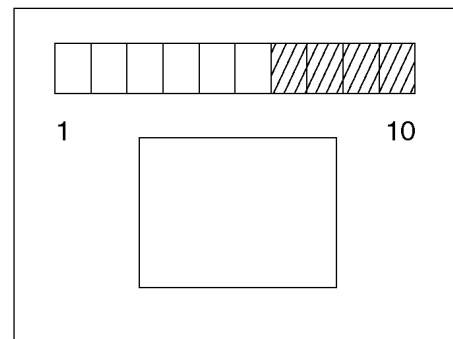
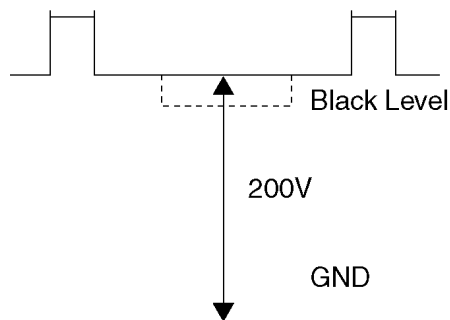
Scan Mode : 100Hz (PAL) G-Limit : 255

Screen VR : Full Counterclockwise B-Limit : 255

Adjustment

1. Receive a Black Level pattern.
2. Connect an oscilloscope to TPLG1 on LG-Board.
3. Adjust Sub Bright so that the waveform A is $200 \pm 2V$.
4. Connect an oscilloscope to TPLR1 on LR-Board.
5. Adjust Low-R so that the waveform A is $200 \pm 2V$.
6. Connect an oscilloscope to TPLB1 on LB-Board.
7. Adjust Low-B so that the waveform A is $200 \pm 2V$.
8. It pushes and it makes a [HELP] key the project only of GREEN.
9. The 6th paragraph shines faintly with the screen VR of GREEN and the 7th paragraph does to the sinking style.
10. It pushes and it makes a [HELP] key the project only of RED.
11. The 6th paragraph shines faintly with the screen VR of RED and the 7th paragraph does to the sinking style.
12. It pushes and it makes a [HELP] key the project only of BLUE.
13. The 6th paragraph shines faintly with the screen VR of BLUE and the 7th paragraph does to the sinking style.

TPLG1/R1/B1



9.2. Sub Contrast / G-Limit Adjustment

Preparation

Picture Menu : Dynamic WB-B-G-ST1 : 255

C Temp : Standard High-RGB : 128

AI : ON Low-G : 640

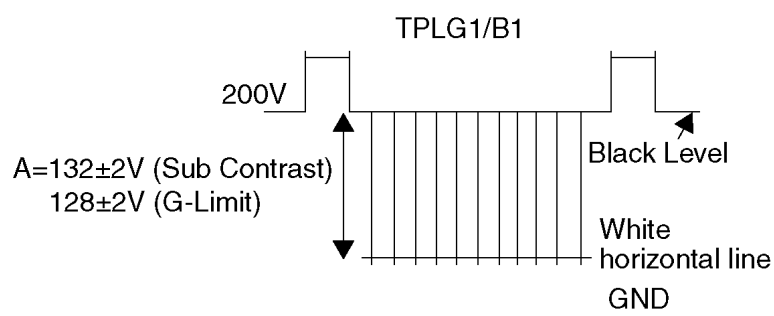
P-NR : AUTO G-Limit : 255

Scan Mode : 100Hz (PAL)

Cut off Adjustment has been adjusted

Adjustment

1. Receive a Cross Hatch pattern.
2. Connect an oscilloscope to TPLG1 on LG-Board.
3. Adjust Sub Contrast so that the waveform A is $132 \pm 2V$.
4. Before G-Limit Adjustment is attempted, Sub Contrast adjustment must be completed.
5. Adjust G-Limit so that the waveform A is $128 \pm 2V$.



9.3. Sub Picture Contrast Adjustment

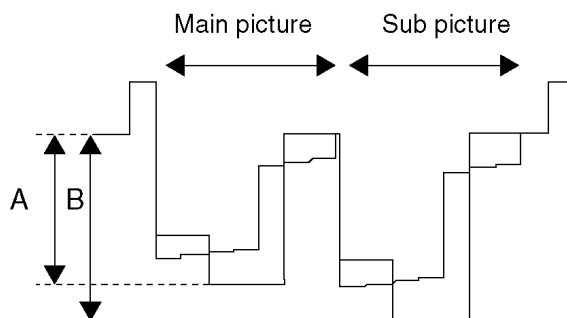
Preparation

Picture Menu : Dynamic

AI : ON

Adjustment

1. Receive a Colour Bar pattern.
2. Connect an oscilloscope to TPLG1 on LG-Board.
3. Increment / Decrement Video gain2 to adjust Sub-Video level B as same as Main video level A.
4. Write same date on
Video gain TV as Video gain AV.



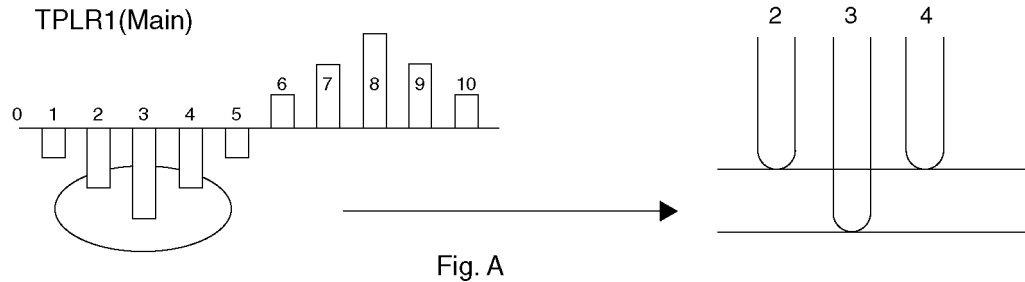
9.4. NTSC Tint Adjustment

Preparation

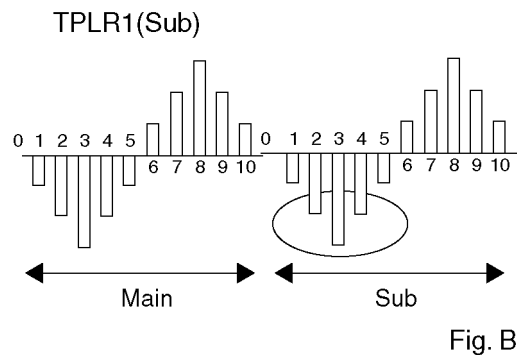
Picture Menu : Dynamic P-NR : AUTO
C Temp : Standard Scan Mode : 100Hz (PAL)
AI : ON

Adjustment

1. Receive a Rainbow (NTSC 3.58Hz) pattern.
2. Connect an oscilloscope to TPLR1 on LR-Board.
3. Adjust Sub NTSC Tint so that the peak of level of waveform is similar to Fig. A.



4. Receive a Rainbow (NTSC 3.58Hz) pattern on both of Main and Sub picture.
5. Adjust Sub NTSC Tint 2 so that the peak of level of waveform is similar to Fig. B.



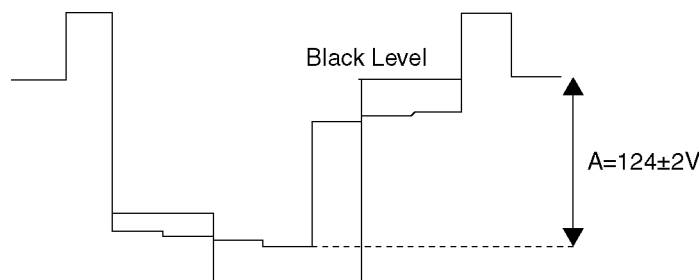
9.5. Sub Color Adjustment

Preparation

Picture Menu : Dynamic P-NR : AUTO
C Temp : Standard Scan Mode : 100Hz (PAL)
AI : ON ACL : OFF

Adjustment

1. Receive a PAL Colour Bar pattern.
2. Connect an oscilloscope to TPLG1 on LG-Board.
3. Adjust Sub Color so that the waveform A is $124 \pm 2V$.



9.6. Blue Focus / Gamma Adjustment

Preparation

Picture Menu : Dynamic WB-B-G-ST1 : 100

C Temp : Standard B-Limit : 255

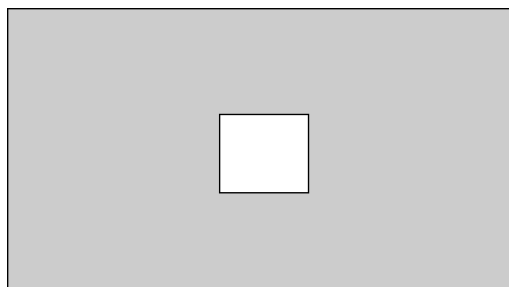
AI : ON

P-NR : AUTO

Scan Mode : 100Hz (PAL)

Adjustment

1. Set the White Balance Meter on Screen center.
2. Receive a Window pattern.
3. Set the Sub Contrast and High-B to Max.
4. It pushes and it makes a [HELP] key the project only of BLUE.
5. Adjust Blue Focus VR so that Y is $7.0 \pm \text{cd/m}^2$



9.7. White Balance Adjustment

Preparation

Picture Menu : Dynamic Sub Bright :130

C Temp : Standard High R : 100

AI : ON

P-NR : ON High B : 128

Scan Mode : 100Hz (PAL) WB-B-G-ST1 : 170

Low G : 640

Adjustment

1. Set the White Balance Meter on Screen center.
2. Receive a Window pattern.
3. Adjust Sub Bright so that the 6th paragraph shines faintly and the 7th paragraph does to the sinking style.
4. Adjust High R, WB-B-G-ST1, High B, Low R, and Low B to the table value.

51 inch model

Mode	Bright (cd/m ²)	Controle DAC name		Target (x) (y)	C. Temp (K)	MPCD
		RED	BLUE			
Hi	96	High R	WB-B-G-ST1	0.270 ± 0.005	13000 ± 500	-5 ± 5
				0.240 ± 0.005		
Mid	35	---	High B	0.270	11500 ± 500	-20 ± 5
				0.230 ± 0.005		
Low	3	Low R	Low B	0.280 ± 0.008	9200 ± 500	-25 ± 5
				0.240 ± 0.008		

43 inch model

Mode	Bright (cd/m ²)	Controle DAC name		Target (x) (y)	C. Temp (K)	MPCD
		RED	BLUE			
Hi	120	High R	WB-B-G-ST1	0.266 ± 0.005	13000 ± 500	-5 ± 5
				0.246 ± 0.005		
Mid	40	---	High B	0.270	11500 ± 500	-20 ± 5
				0.240 ± 0.005		
Low	3	Low R	Low B	0.280 ± 0.008	9200 ± 500	-25 ± 5
				0.240 ± 0.008		

9.8. Sub Bright Adjustment

Preparation

Picture Menu : Dynamic P-NR : AUTO

C Temp : Dynamic Scan Mode : 100Hz (PAL)

AI : ON

Cut off and White Balance Adjustment has been adjusted

Adjustment

1. Set the White Balance Meter on Screen center.
2. Receive a PAL Window pattern.
3. Adjust Sub Bright so that the 6th paragraph shines faintly and the 7th paragraph does to the sinking style.

9.9. Blue Limit Adjustment

Preparation

Picture Menu : Dynamic

C Temp : Standard

AI : ON

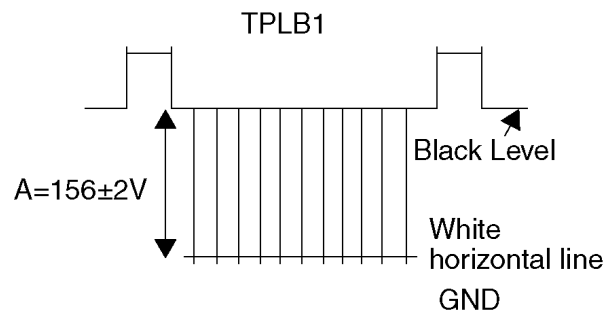
P-NR : ON

Scan Mode : 100Hz (PAL)

White Balance Adjustment has been adjusted

Adjustment

1. Receive a Cross Hatch pattern.
2. Connect an oscilloscope to TPLB1 on LB-Board.
3. Adjust B-LIMIT so that the waveform A is 156 ± 2V.



10 Convergence Adjustment

The convergence adjustment is set separately for each 50/100Hz/ 60/100Hz input (NTSC, PAL/ SECAM). The following explanation uses the PAL mode as an example, since the same procedure applies to the convergence adjustment for NTSC mode.

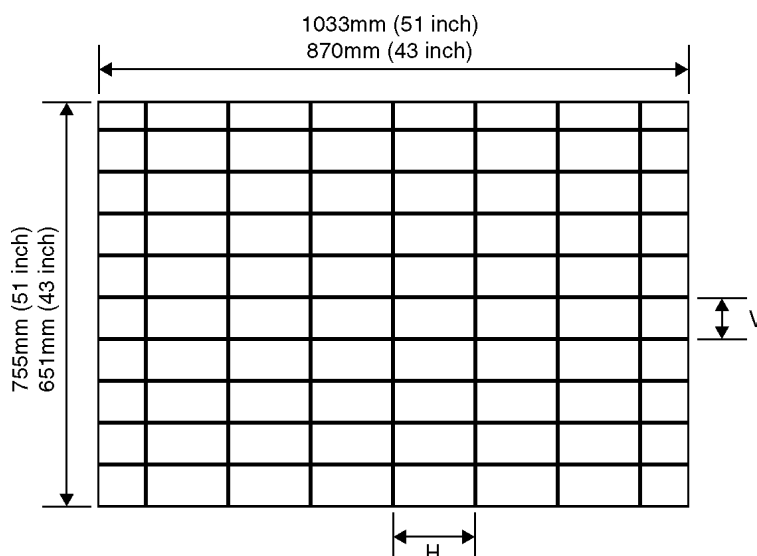
When replacing the following Parts.

IC7301 (EEP-ROM in A-Board)L551 (Pincushion Coil)High Voltage Producing Parts Other Parts (If change the convergence)

Create an Adjustment Sheet by tracing the following specifications in their actual size on transparent film or tracing paper. Then adjust the convergence.

When replacing one of the CRT's.

10.1. Convergence Adjustment Sheet



51inch

信号	メッシュピッチ(mm)	
	H	V
PAL 100	176.5	100.0
PAL V.Comp	176.5	51.5
PAL Progressive	176.5	100.0
NTSC Progressive	170.5	102.5

43inch

信号	メッシュピッチ(mm)	
	H	V
PAL 100	149.0	84.5
PAL V.Comp	149.0	43.5
PAL Progressive	149.0	84.5
NTSC Progressive	143.5	86.5

Adjust the convergence for each of the 50/100Hz and 60/120Hz inputs so that they are aligned with the other colours.

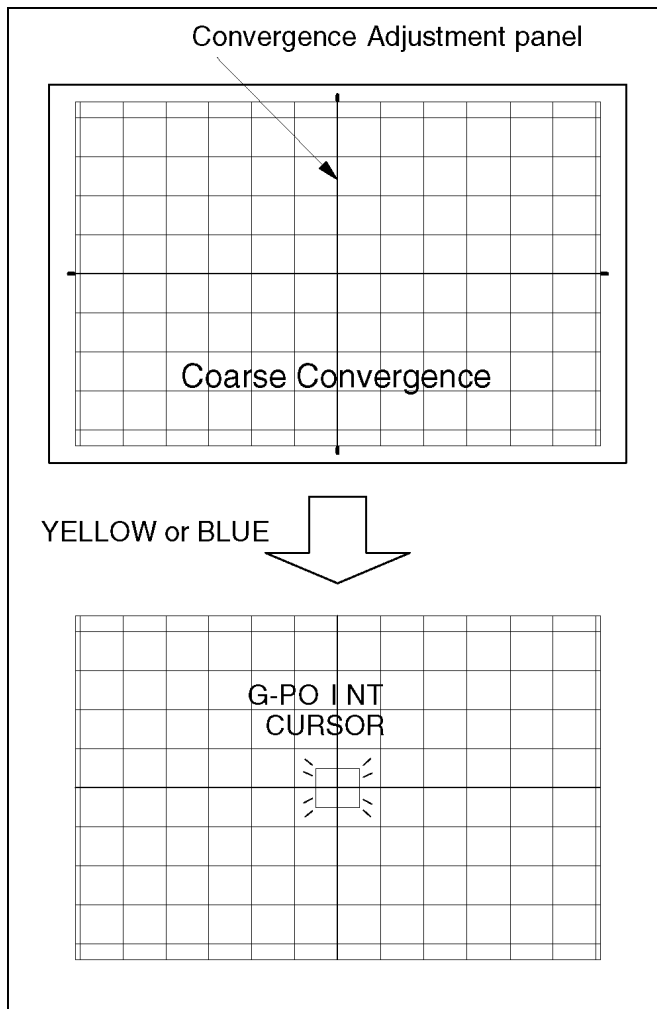
Helpful Hint

All positions which have been adjusted are recorded within P-2 for NTSC data and P-3 for PAL data of the memory. This data can be copied to P-4 memory area, allowing you to perform the adjustment of P-2 (NTSC) and P-3 (PAL). To perform these adjustments, push the SEARCH button on the remote control, and manipulate the position [▲] and [▼] button and the "N" button as instructed by the On Screen Display in Fine Convergence adjustment.

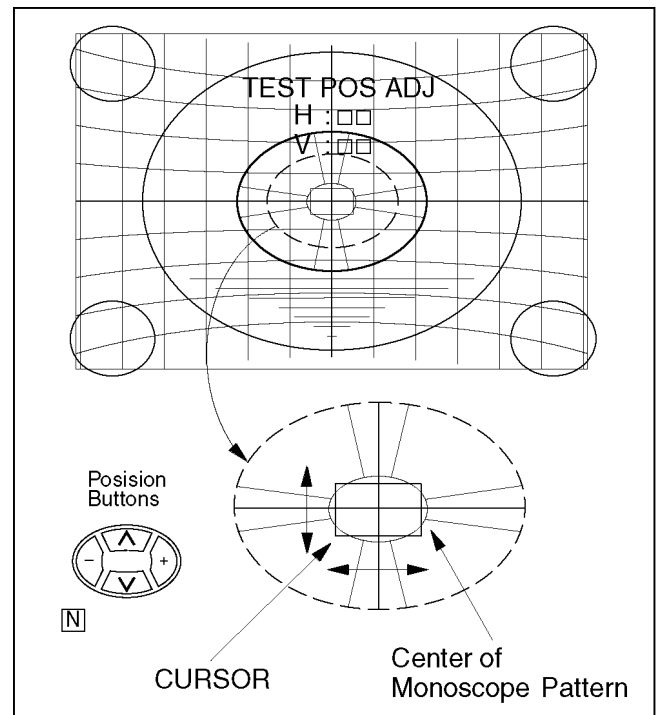
All of the Convergence Control Charts have been listed for the remote control buttons after the Convergence Adjustment Procedure Please refer to these. (Page 29)

10.2. Convergence Adjustment Procedure

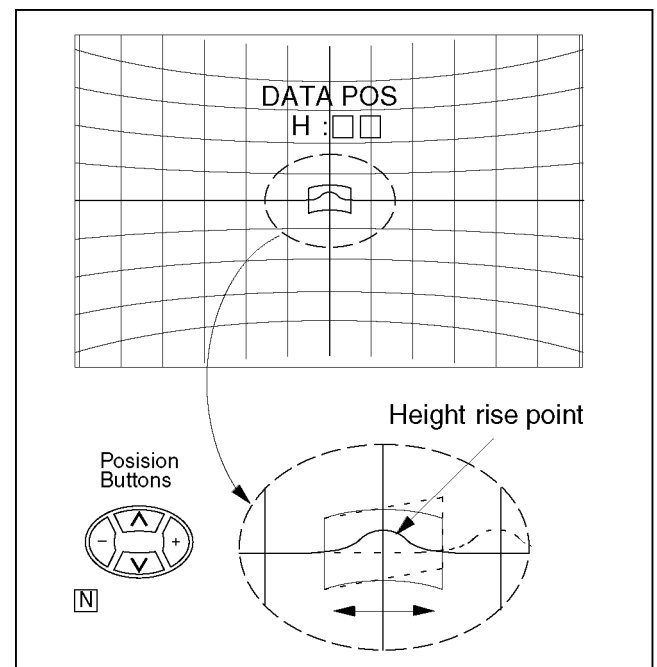
1. Input a monoscope pattern of PAL.
2. Enter the Service Mode1.
3. Select the Coarse Convergence by pushing "RED" or "GREEN" buttons. Then push "YELLOW" button, and push Position and [N] buttons to set the data to zero.
4. Stick the Convergence Adjustment Sheet (PAL 50Hz) onto the screen.
5. Push the "YELLOW" or "BLUE" on the remote control, and enter the Coarse Convergence Adjustment mode.



6. Push the "0" of 10 key buttons, and then push the "N" of position buttons on the remote control.
7. Enter to "TEST POS." mode.
8. Push the "5" button to display the monoscope pattern on the screen.
9. Adjust the position buttons so that the cursor in the center of the test pattern is aligned with the center of the monoscope pattern.



10. Push the "TV/AV" button on the remote control, and enter the "DATA POS." mode.
11. Push the "5" button and close the background image (monoscope pattern).
12. Use the "+" and "-" of the position buttons so that the bump in the screen center line is at the center of the cursor.



13. Push the "TV/AV" button twice, and enter the "OSD POS" mode.
14. Adjust the position buttons so that the cross-cursor is aligned near cross-bar.
15. Push the "SET UP" button, and "N" button to store data.
16. Push the "0" of 10 key buttons, and return to Coarse Convergence Adjustment mode.

10.3. Coarse Convergence Adjustment mode

MODE	SAMPLE DATA	DAC DATA UP	DAC DATA DOWN	MODE	SAMPLE DATA	DAC DATA UP	DAC DATA DOWN
1 STATIC	H	R 123		3 LINEARITY	H	R -107	
		G 10				G 88	
		B -229				B 319	
	V	R -8		4 KEYSTONE	V	R 102	
		G -5				G 32	
		B -8				B -111	
2 SIZE	H	R -69		5 PIN	H	R 61	
		G -38				G 48	
		B -93				B 53	
	V	R -5			V	R 227	
		G -6				G 268	
		B -15				B 258	
3 SKEW	H	R -14		6 CORNER	H	R +31	
		G -5				G -19	
		B -10				B -69	
	V	R 0			V	R 0	
		G 0				G 0	
		B -2				B -2	

10.3.1. Green Coarse Convergence Adjustment

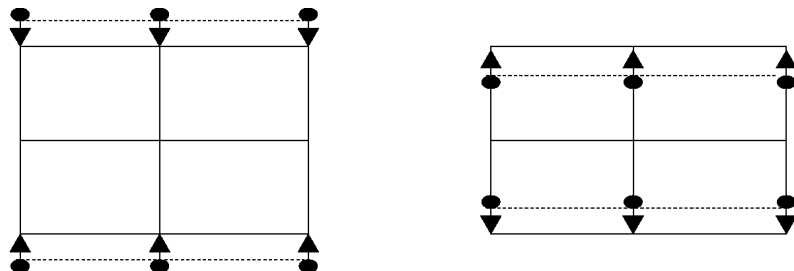
10.3.1.1. Reparation

Push the "SOUND" button, and select the Green Adjustment mode. Push the "2" button, and select the "Border and Cross" pattern. Push the "MUTE" button, and select the "Green" colour.

10.3.1.2. "G-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "G-SIZE (V)". Push the "Channel up/down" buttons, and adjust the upper and lower border line of test pattern is aligned with the edge of the screen frame.

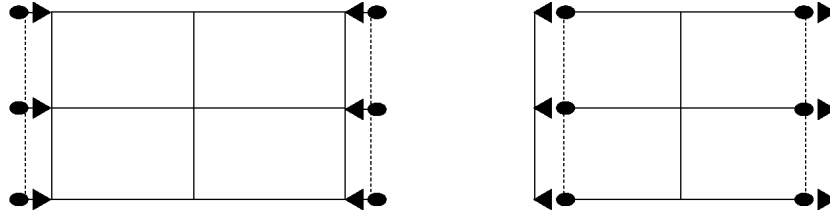
Fig. A : V-SIZE



10.3.1.3. "G-SIZE (H)" adjustment

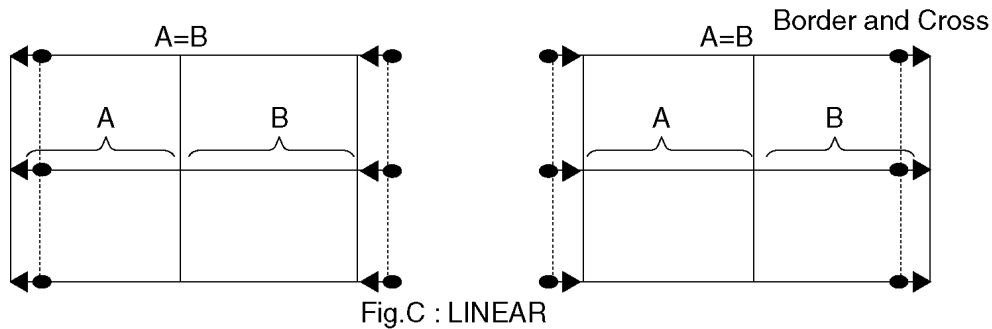
Push the "TV/AV" buttons, and select the "G-SIZE (H)". Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame.

Fig. B : H-SIZE



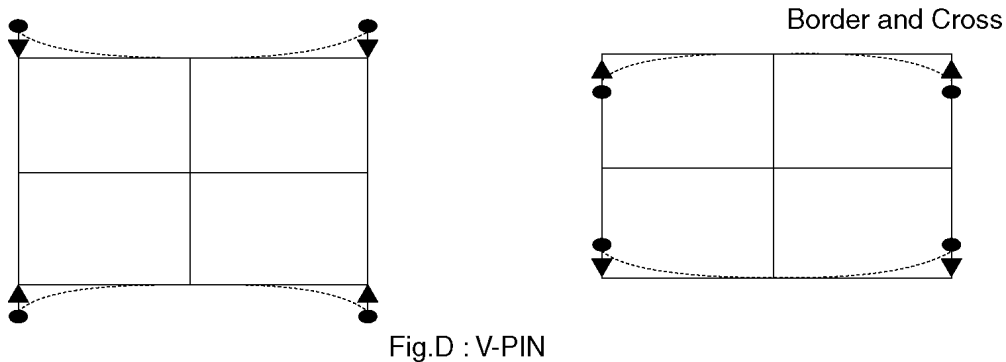
10.3.1.4. "G-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "G-LINEAR". Push the "Volume up/down" buttons, and adjust the "G-LINEAR" to become the following figure.



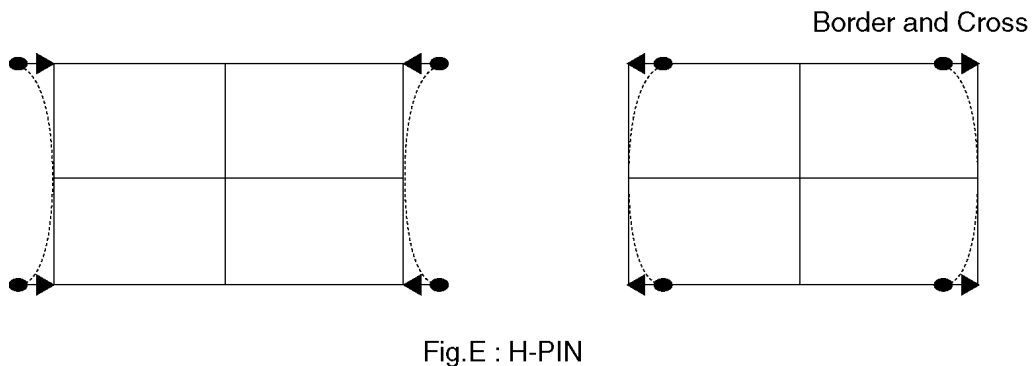
10.3.1.5. "G-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "G-PIN". Push the "Channel up/down" buttons, and adjust the "G-PIN (V)" to become the following figure.



10.3.1.6. "G-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "G-PIN". Push the "Volume up/down" buttons, and adjust the "G-PIN (H)" to become the following figure.



10.3.1.7. "G-CORNER" adjustment

Push the "TV/AV" buttons, and select the "G-CORNER". Push the "Volume up/down" buttons, and adjust the "G-CORNER" to become the following figure.

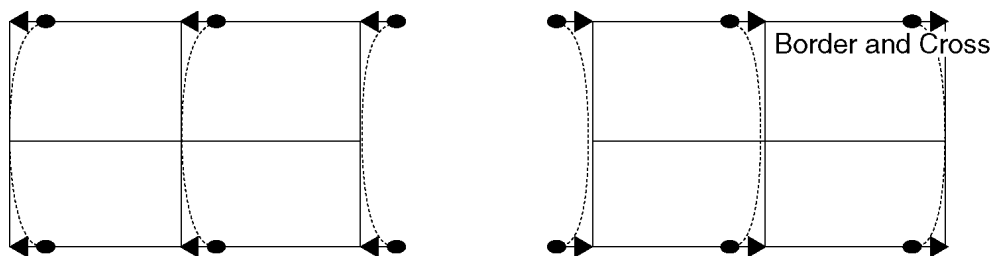


Fig.F : CORNER

10.3.1.8. "G-KEY" adjustment

Push the "TV/AV" buttons, and select the "G-KEY". Push the "Channel up/down" buttons, and adjust the "G-KEY" refer to following figure.

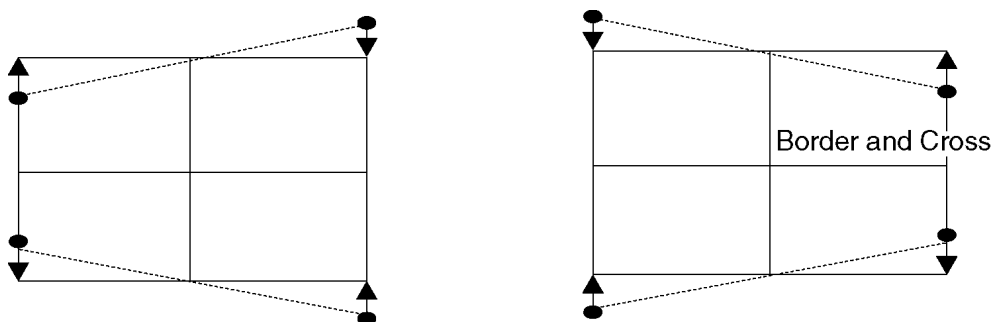


Fig.G : KEY

10.3.1.9. "G-STATIC" adjustment

Push the "TV/AV" buttons, and select the "G-STATIC". Push the "Channel/Volume up/down" buttons, and adjust "G-STATIC" so that Horizontal & Vertical center line is aligned with the bump in the screen center mark.

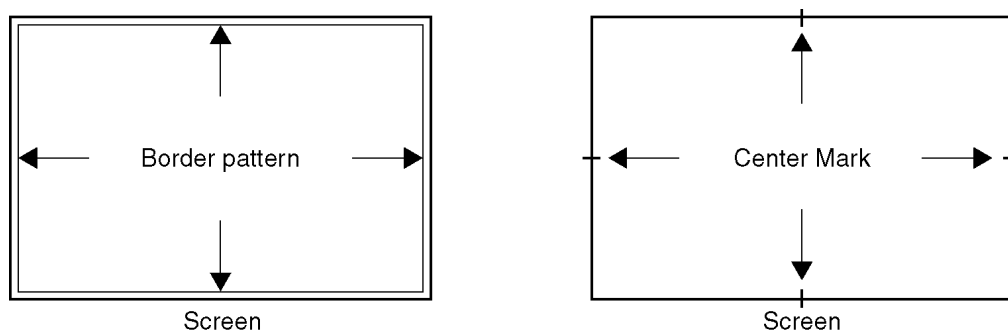


Fig.H STATIC

10.3.2. Red Coarse Convergence Adjustment

10.3.2.1. Reparation

Push the "SOUND" button, and select the Red Adjustment mode. Push the "2" button, and select the "Border and Cross" pattern. Push the "MUTE" button, and select the "Yellow" colour. Push the "POSITION" button, and adjust the "R-STATIC" so that the Red color of pattern is aligned with Green colour of pattern.

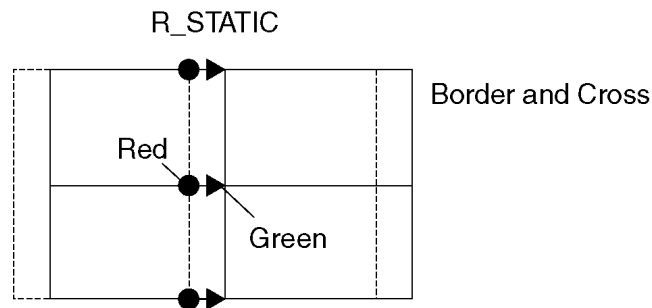


Fig.I : R-STATIC

10.3.2.2. "R-SKEW (V)" adjustment

Push the "TV/AV" buttons, and select the "R-SKEW". Push the "Volume up/down" buttons, and adjust the reference line become a vertical line. (Refer to figure.)

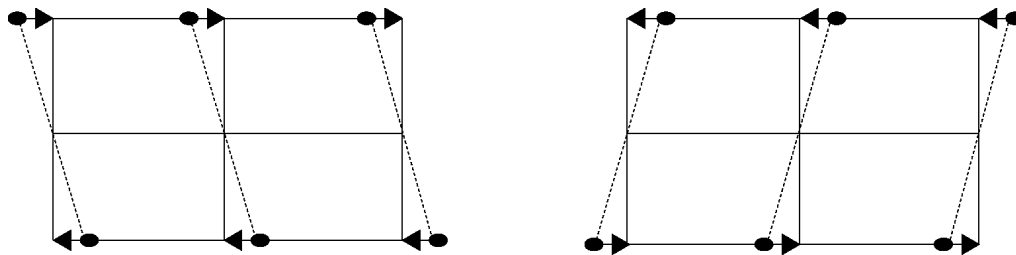


Fig.J : SKEW(V)

10.3.2.3. "R-SKEW (H)" adjustment

Push the "TV/AV" buttons, and select the "R-SKEW". Push the "Channel up/down" buttons, and adjust reference line become a horizontal line. (Refer to figure.)

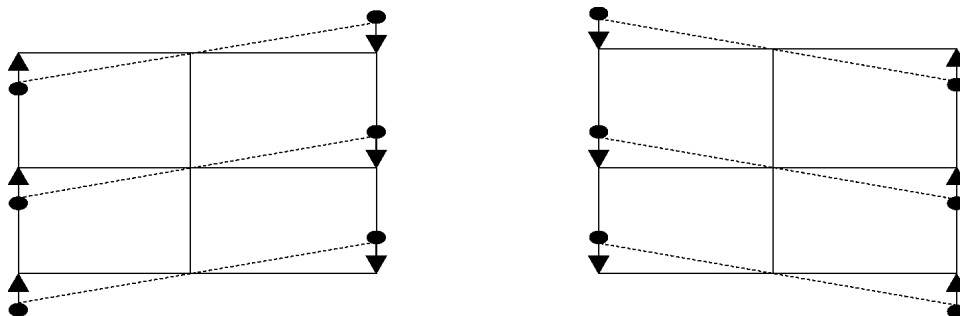


Fig.K : SKEW(H)

10.3.2.4. "R-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "R-SIZE". Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame. (Refer to Fig. A.)

10.3.2.5. "R-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "R-SIZE". Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame. (Refer to Fig. B.)

10.3.2.6. "R-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "R-LINEAR". Push the "Volume up/down" buttons, and adjust the "R-LINEAR". (Refer to Fig. C.)

10.3.2.7. "R-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "R-PIN". Push the "Channel up/down" buttons, and adjust the "R-PIN (V)". (Refer to Fig. D.)

10.3.2.8. "R-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "R-PIN". Push the "Volume up/down" buttons, and adjust the "R-PIN (H)". (Refer to Fig. E.)

10.3.2.9. "R-CORNER" adjustment

Push the "TV/AV" buttons, and select the "R-CORNER". Push the "Channel up/down" buttons, and adjust the "R-CORNER". (Refer to Fig. F.)

10.3.2.10. "R-KEY" adjustment

Push the "TV/AV" buttons, and select the "R-KEY". Push the "Channel up/down" buttons, and adjust the "R-KEY". (Refer to Fig. G.)

10.3.2.11. "R-STATIC" adjustment

Push the "TV/AV" buttons, and select the "R-STATIC". Push the "Channel/Volume up/down" buttons, and adjust "R-STATIC" so that Horizontal & Vertical Center line is aligned with the bump in the screen center mark. (Refer to Fig. H.)

10.3.3. Blue Coarse Convergence Adjustment

10.3.3.1. Reparation

Push the "SOUND" button, and select the Blue Adjustment mode. Push the "2" button, and select the "Border and Cross" pattern. Push the "MUTE" button, and select the "Cyan" colour. Push the "POSITION" button, and adjust the "B-STATIC" so that the Blue color of pattern is aligned with Green colour of pattern.

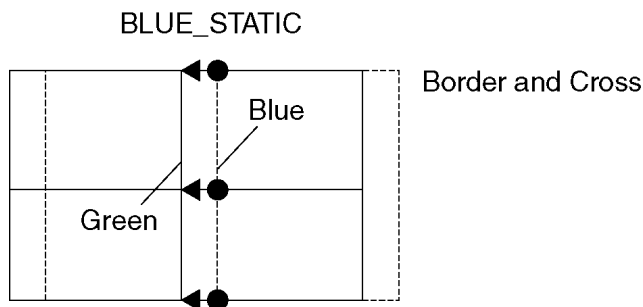


Fig.L : B-STATIC

10.3.3.2. "B-SKEW (V)" adjustment

Push the "TV/AV" buttons, and select the "B-SKEW". Push the "Volume up/down" buttons, and adjust the reference line become a vertical line. (Refer to Fig. J.)

10.3.3.3. "B-SKEW (H)" adjustment

Push the "TV/AV" buttons, and select the "B-SKEW". Push the "Channel up/down" buttons, and adjust reference line become a horizontal line. (Refer to Fig. K.)

10.3.3.4. "B-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "B-SIZE". Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame. (Refer to Fig. A.)

10.3.3.5. "B-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "B-SIZE". Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame. (Refer to Fig. B.)

10.3.3.6. "B-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "B-LINEAR". Push the "Volume up/down" buttons, and adjust the "B-LINEAR". (Refer to Fig. C.)

10.3.3.7. "B-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "B-PIN". Push the "Channel up/down" buttons, and adjust the "B-PIN (V)". (Refer to Fig. D.)

10.3.3.8. "B-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "B-PIN". Push the "Volume up/down" buttons, and adjust the "B-PIN (H)". (Refer to Fig. E.)

10.3.3.9. "B-CORNER" adjustment

Push the "TV/AV" buttons, and select the "B-CORNER". Push the "Channel up/down" buttons, and adjust the "B-CORNER". (Refer to Fig. F.)

10.3.3.10. "B-KEY" adjustment

Push the "TV/AV" buttons, and select the "B-KEY". Push the "Channel up/down" buttons, and adjust the "B-KEY". (Refer to Fig. G.)

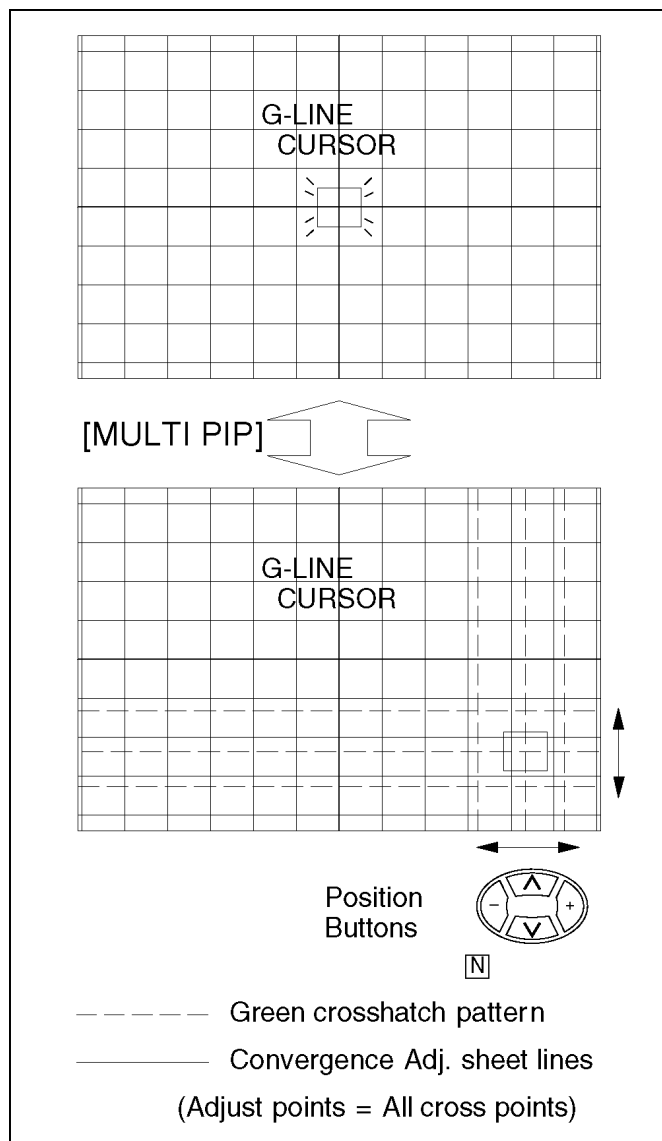
10.3.3.11. "B-STATIC" adjustment

Push the "TV/AV" buttons, and select the "B-STATIC". Push the "Channel/Volume up/down" buttons, and adjust "B-STATIC" so that Horizontal & Vertical Center line is aligned with the bump in the screen center mark. (Refer to Fig. H.)

10.4. Fine Convergence Adjustment

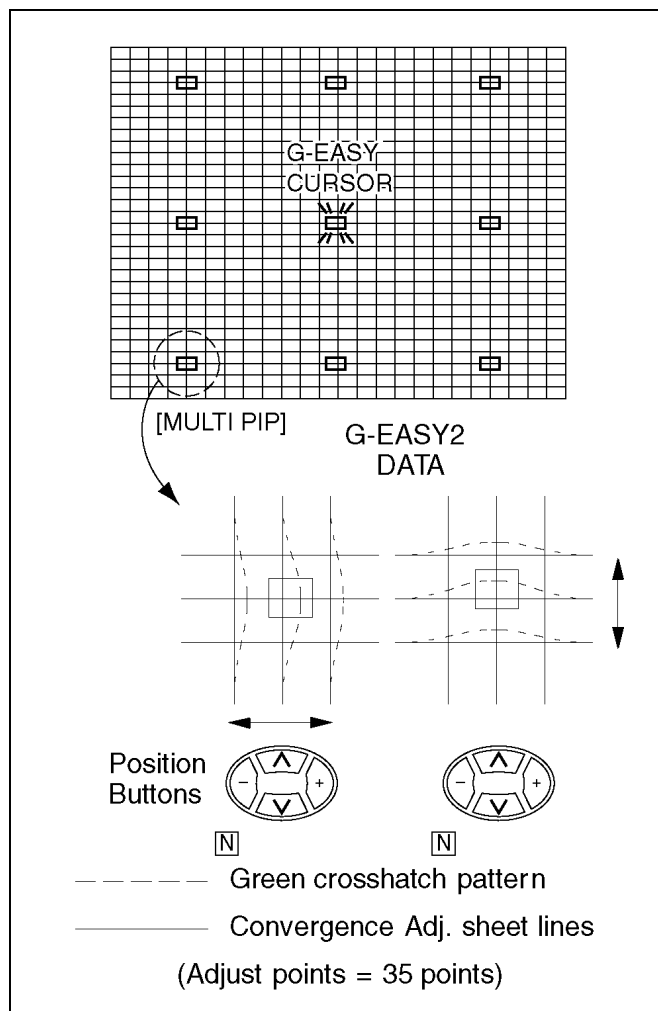
10.4.1. Green Convergence Adjustment

1. Select the "G-LINE CURSOR" mode by pushing "TV/AV" button on the remote control

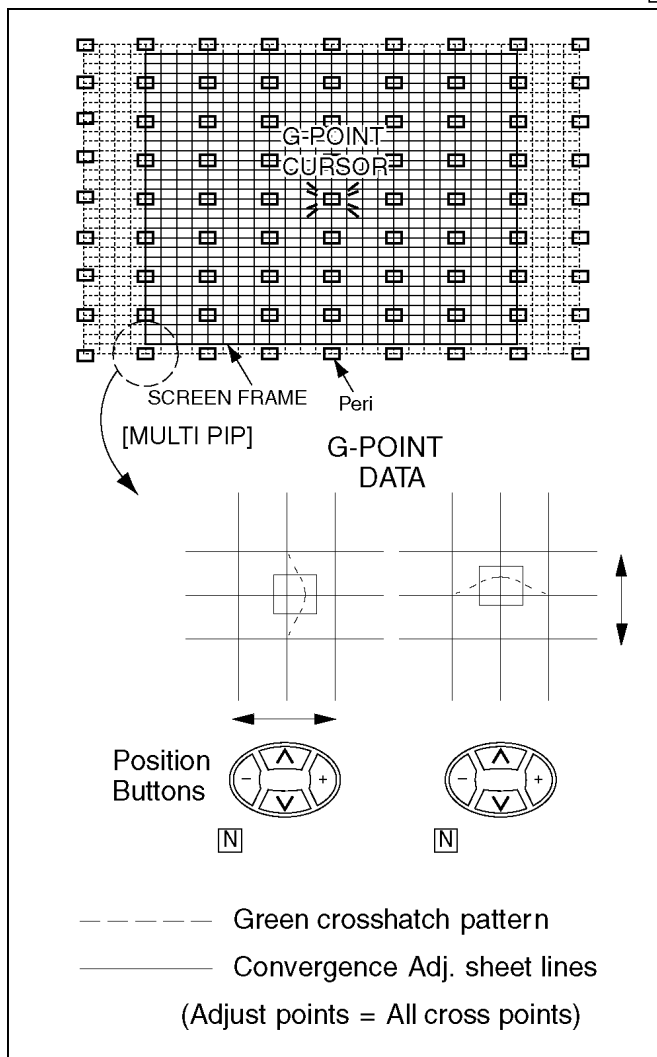


2. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment lines). Then use the "MULTI PIP" to change from "G-LINE CURSOR" to "G-LINE DATA".
3. Use the Position Buttons to adjust each point (line) so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
4. Push the "MULTI PIP" and switch from "G-LINE DATA" to "G-LINE CURSOR".
5. Repeat step 2~4 to adjust the vertical lines (13) and the horizontal lines (9).
6. Select the "G-EASY CURSOR" mode by pushing "TV/AV" button on the remote control.
7. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment point). Then use the "MULTI PIP" to change from "G-EASY CURSOR" to "G-EASY DATA".

8. Use the Position Buttons to adjust each point so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
9. Push the "MULTI PIP" and with from "G-EASY DATA" to "G-EASY CURSOR".
10. Repeat step 7~9 to adjust the 9 adjustment points.



11. Select the "G-POINT CURSOR" mode by pushing "TV/AV" button on the remote control.
12. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment lines). Then use the "MULTI PIP" to change from "G-LINE CURSOR" to "G-LINE DATA".
13. Use the Position Buttons to adjust each point so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
14. Push the "MULTI PIP" and switch from "G-POINT DATA" to "G-POINT CURSOR".
15. Repeat step 12-14 to adjust all of adjustment points.



16. Adjust the LINE, EASY and POINT DATA again viewing all over the screen.

If need the adjustment at the around of screen, select the "ORIGINAL" and adjust it.

17. To store the data after the Green Convergence Adjustment has been completed, push the "MAIN MENU" button and then push the "N" button (pushing the "N" button will store the data in the E²PROM).

18. Remove the Convergence Adjustment Sheet from the screen.

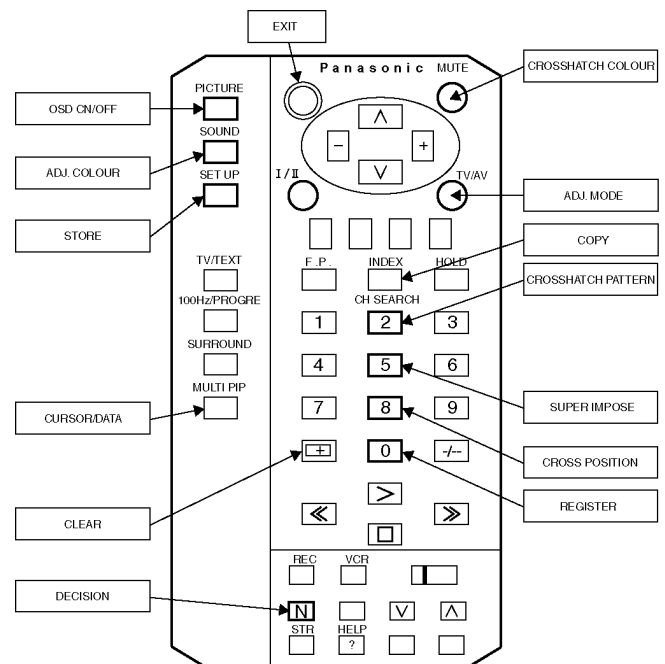
10.4.2. Red Convergence Adjustment

1. Push the "MUTE" button twice and change to the Red Adjustment of Yellow Colour.
2. Repeat the same steps described for the Green Conv.Adj. in 1~16 to perform the Red Convergence Adjustment.
3. To store the data after the Red Convergence Adjustment has been completed, push the "MAIN MENU" button and then the "N" button.

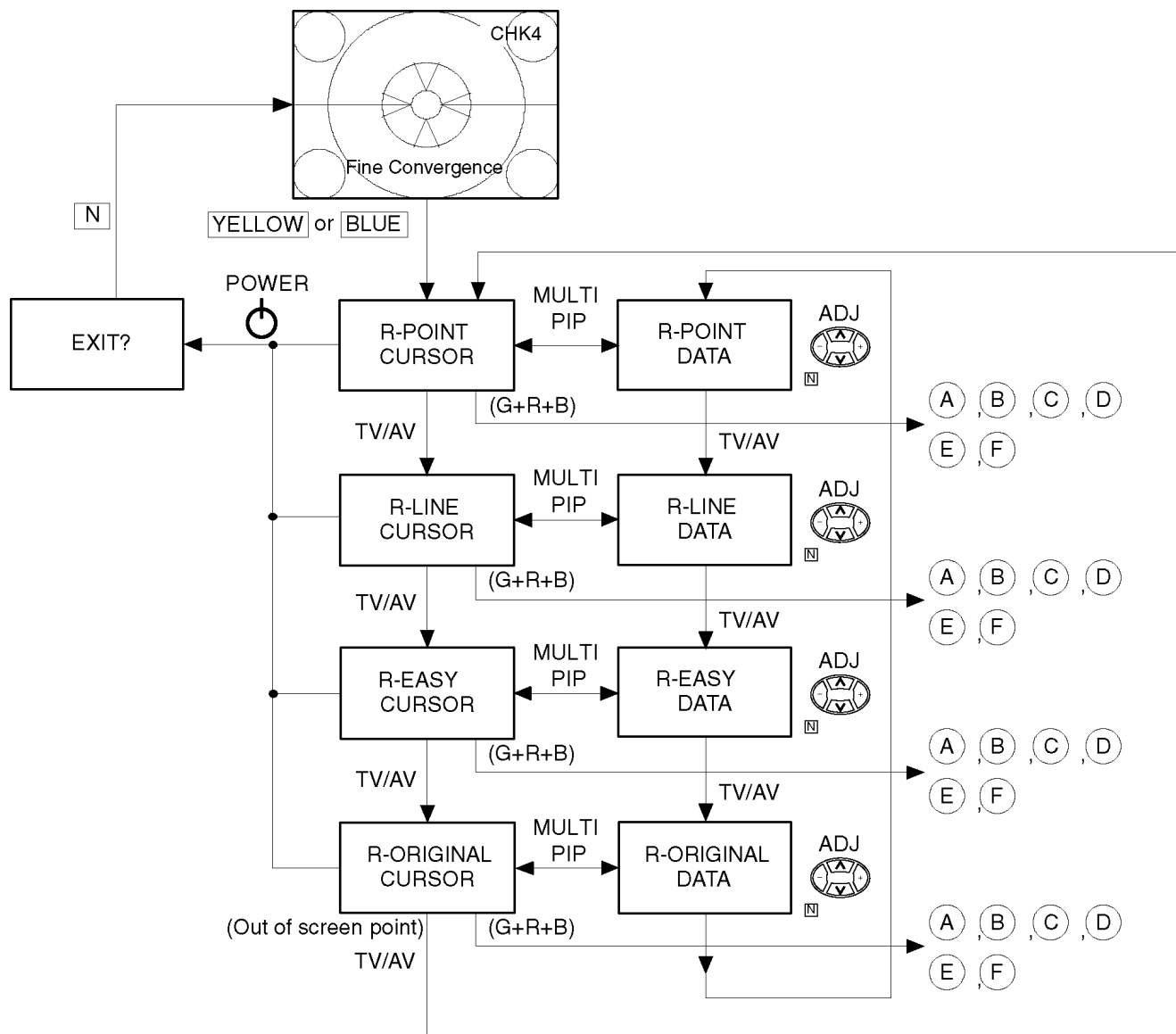
10.4.3. Blue Convergence Adjustment

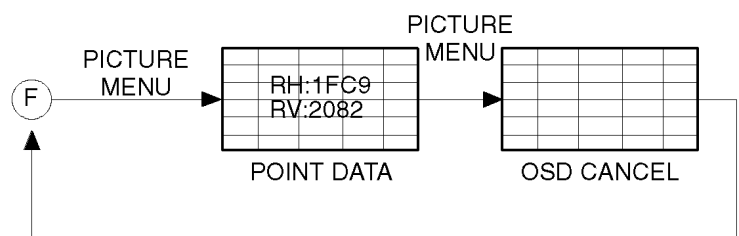
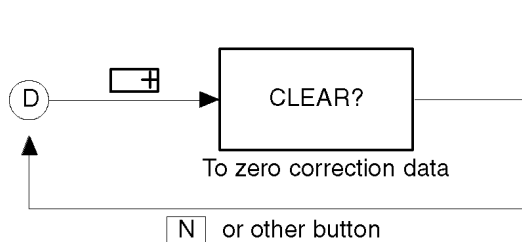
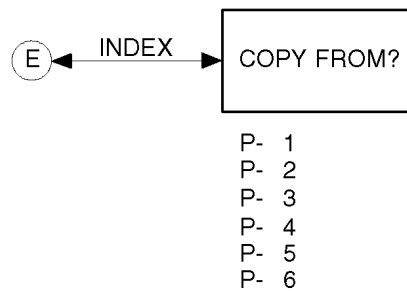
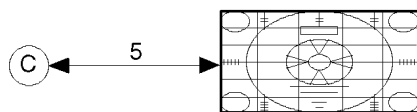
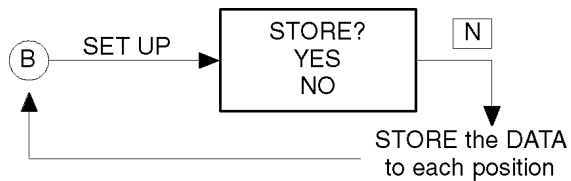
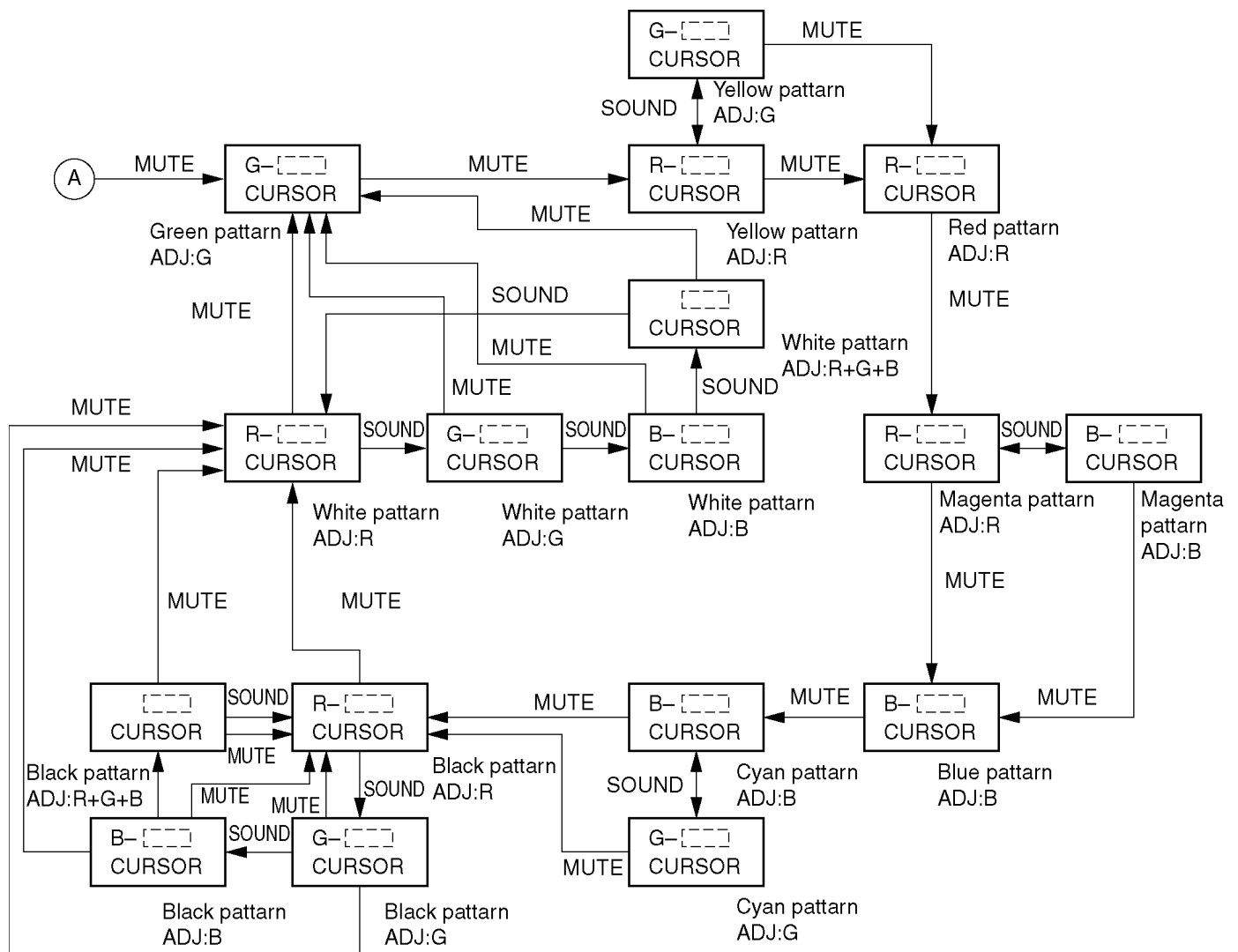
1. Push the "MUTE" button twice and change to the Blue Adjustment of cyan Colour.
2. Repeat the same steps described for the Green Conv.Adj. in 1~16 to perform the Blue Convergence Adjustment.
3. To store the data after the Blue Convergence Adjustment has been completed, push the "MAIN MENU" button and then push the "N" button.
4. To switch from the Convergence Adjustment Mode to the Service Mode, press the Power button and then push the "N" button.

Repeat the same adjustment after inputting the 60Hz (NTSC) signal.



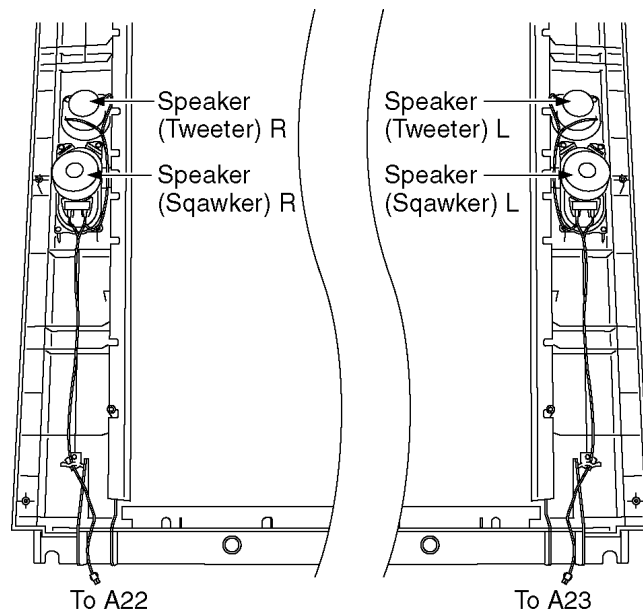
Fine Convergence Control Chart



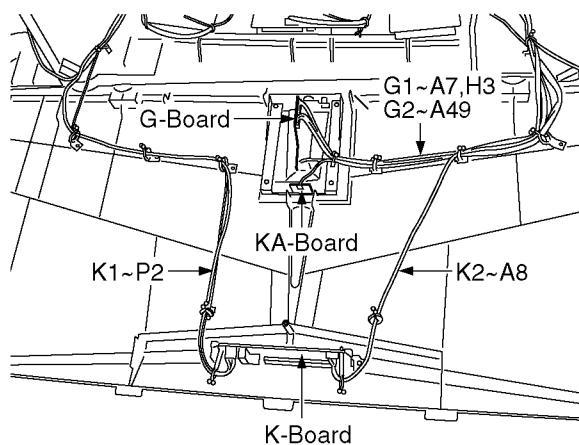


11 Location of Lead Wiring

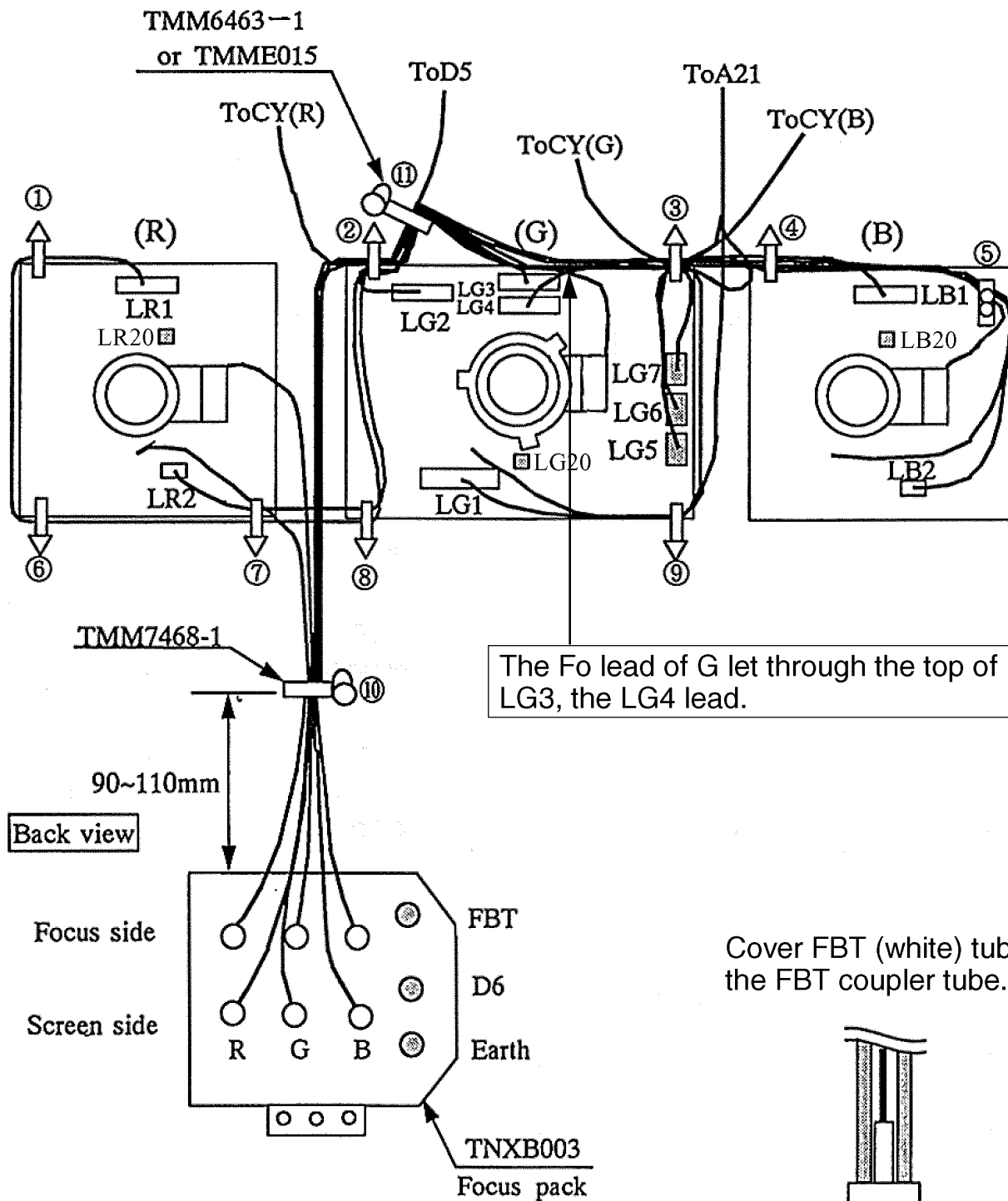
11.1. Location of Lead Wiring (1)



11.2. Location of Lead Wiring (2)



11.3. Location of Lead Wiring (3)



(Attention)
The lead line doesn't come within 5 millimeters of the neighborhood of the focus block, too.

INSERTION OF CONNECTOR

LR1, LR2, LG1, LG2, LG3, LG4, LG5, LG6, LG7, LB1, LB2,

LR20, LG20, LB20

CLAMP DOUBLE CLAMP : ◎

WIRES \ CLAMPER	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑳
CY(R)		●	●								●								
CY(G)			◎																
CY(B)			◎																
Focus(R)										●									
Focus(G)		●								●	●								
Focus(B)		●	●	●	●					●	●								
Screen(R)							●			●									
Screen(G)		●	●						●	●	●								
Screen(B)		●	●	●	●					●	●								
LR1~LG3	●	●				●	●	●			●								
LR2~A21		●	●				●	●			●								
LG1~A21									●										
LG4~LB1			●	●															
LG2~D5		●									●								
LB2				●	●														

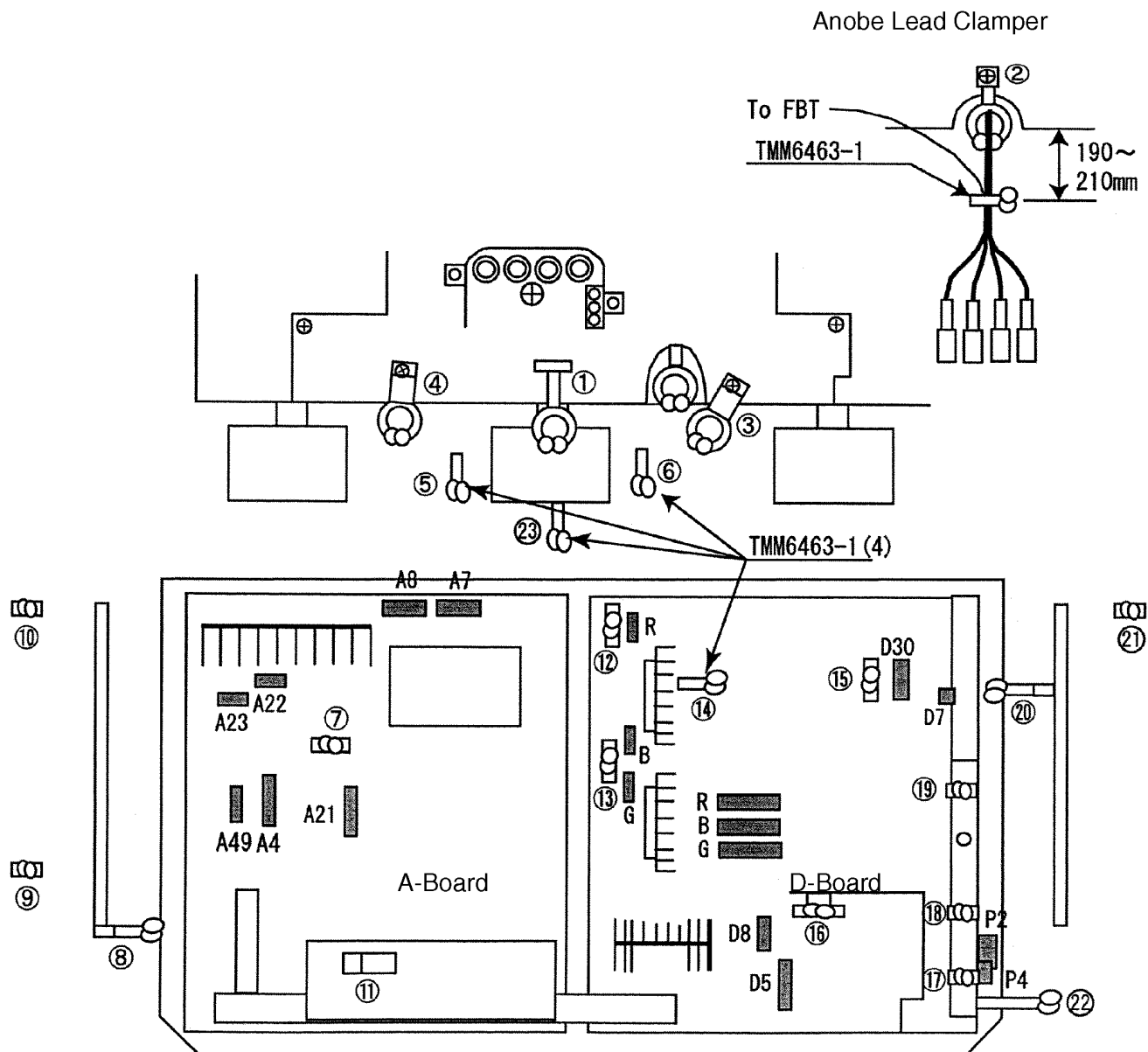
NOTICE FOR WORE DRESSING

1. Confirm that the lead line isn't hitting the metallic part of the neck print after CRT neck print (R, G, B) insertion.
2. It decides to be permitted to insert the lead line (R, G, B) of the VM coil wherever of LG5, LG6, LG7 of the LG print.
3. It decides to be permitted to insert G, B of the DY lead in either.
4. Keep the Fo lead of B clear of components of the LB-Board and IC2301 heat sink of the A-Board.

11.4. Location of Lead Wiring (4)

The Anode Lead

1. It inserts Anode lead tip in the back to FBT (the fly background transformer), and it makes turn on the right and it locks it.
(Three insertion positions are free).
2. Secure a safe space distance from the circumference part by equal to or more than 10 millimeters.



INSERTION OF CONNECTOR

A6, A7, A21, A22, A23, A49, Anode distributor (R, G, B, FBT), D8, D5, DY (R, G, B),

CY (R, G, B), D30, P1, P2, P4, Focus Pack (R)

CLAMP DOUBLE CLAMP : ◎

WIRES \ CLAMPER	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓
A22~RSP							◎	●	●	●													
B~DY	●		●			◎								●		●							
B~CY	●			◎	◎								●										
G~DY	●		●			◎								●		●							
G~CY	●			◎	◎								●										
R~DY	●		●			◎								●		●							
R~CY	●			◎	◎							●											●
D8~Distributor	●													●		●							
G2~A49								●	●	●													
A6~K2							●	●	●	●													
A2~LB2, LG1, LR2							◎																
A23~LSP	●		●		●	●	◎													●	●		
LG2~D5				●	◎	●								●		●							
FBT~Focus pack	●													●		●							
D30~Focus pack	●													●	●	●							
K1~P2																	●	●	●	●	●		
Cabinet earth~P4																	●	●	●	●			
AC cord																						●	
G1~A7, H3							●	●	●	●	●												
D7~DG	●		●		●		●	●	●	●	●	●			●								

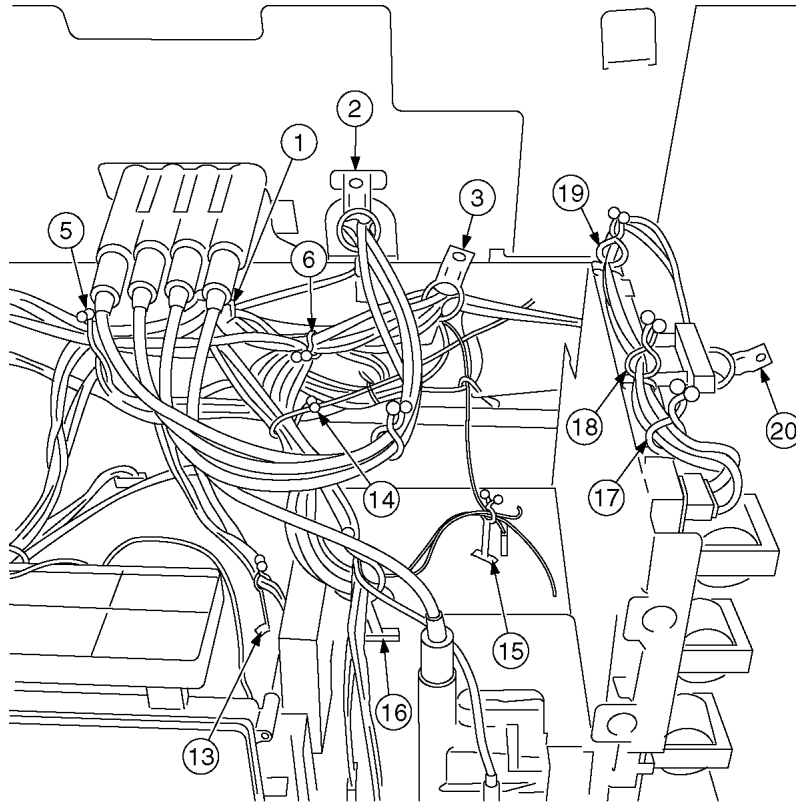
A7 only

H3 only

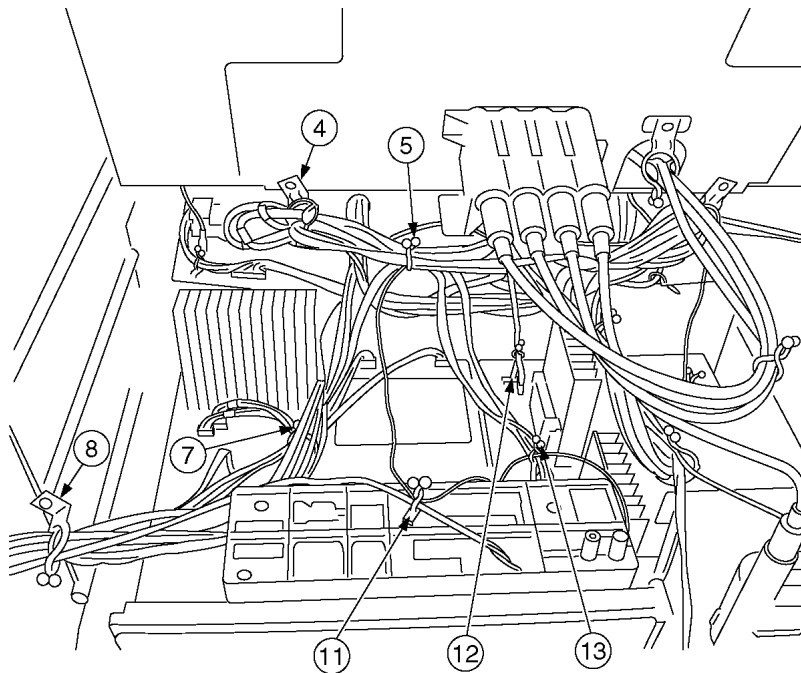
NOTICE FOR WIRE DRESSING

1. After insert R, G, B on CRT-print, confirm that wire should not touch to material parts of CRT-print.

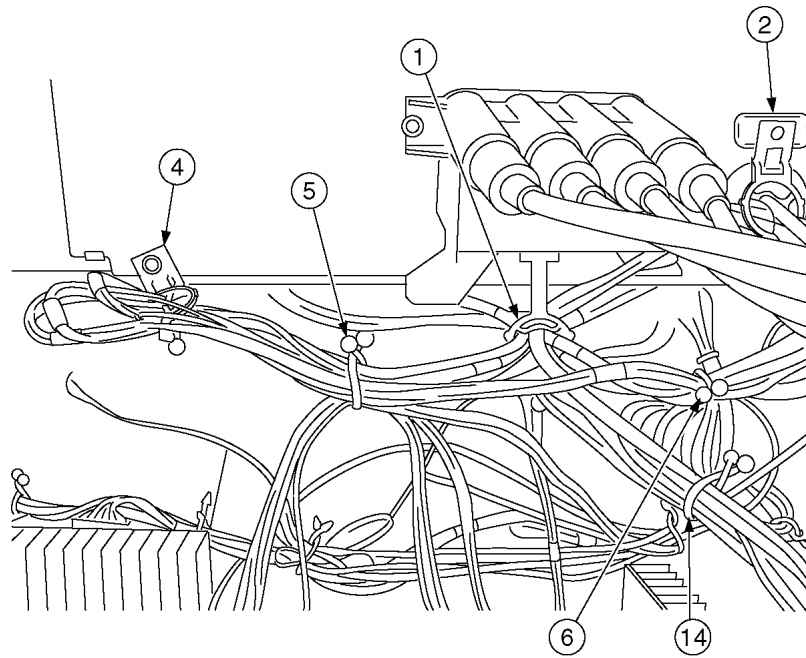
11.5. Location of Lead Wiring (5)



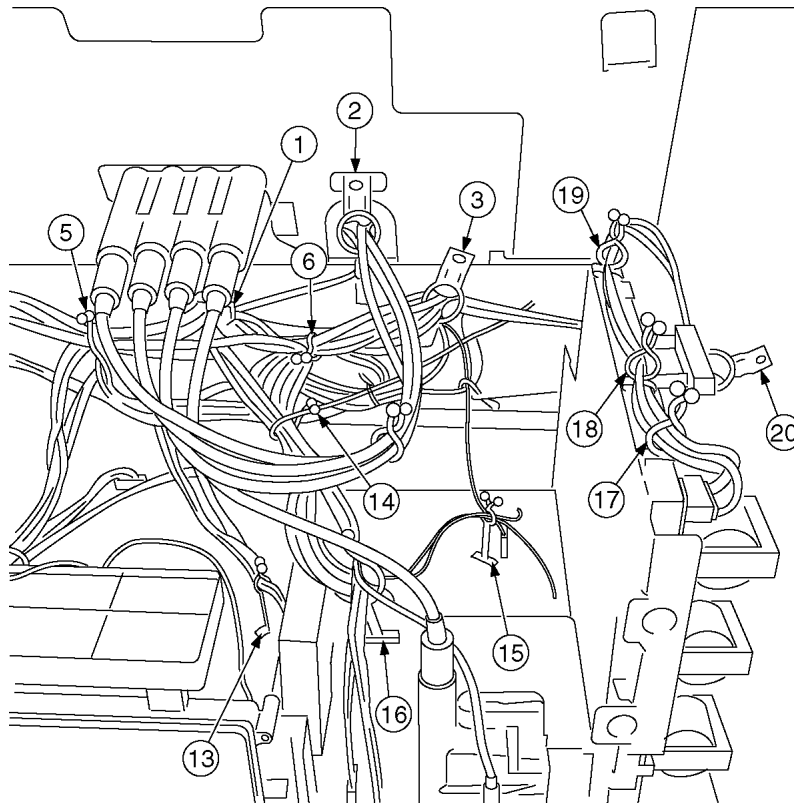
11.6. Location of Lead Wiring (6)

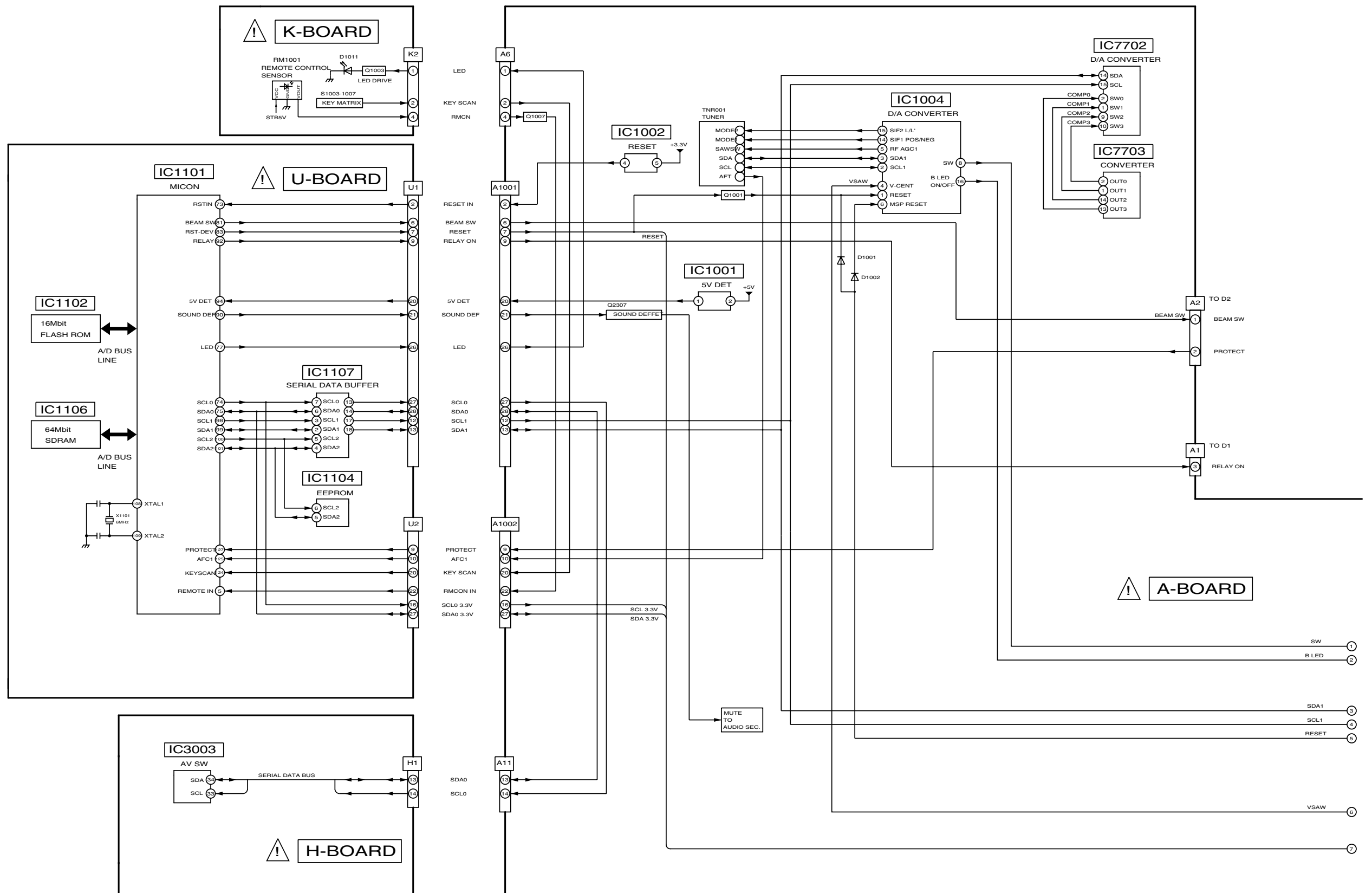


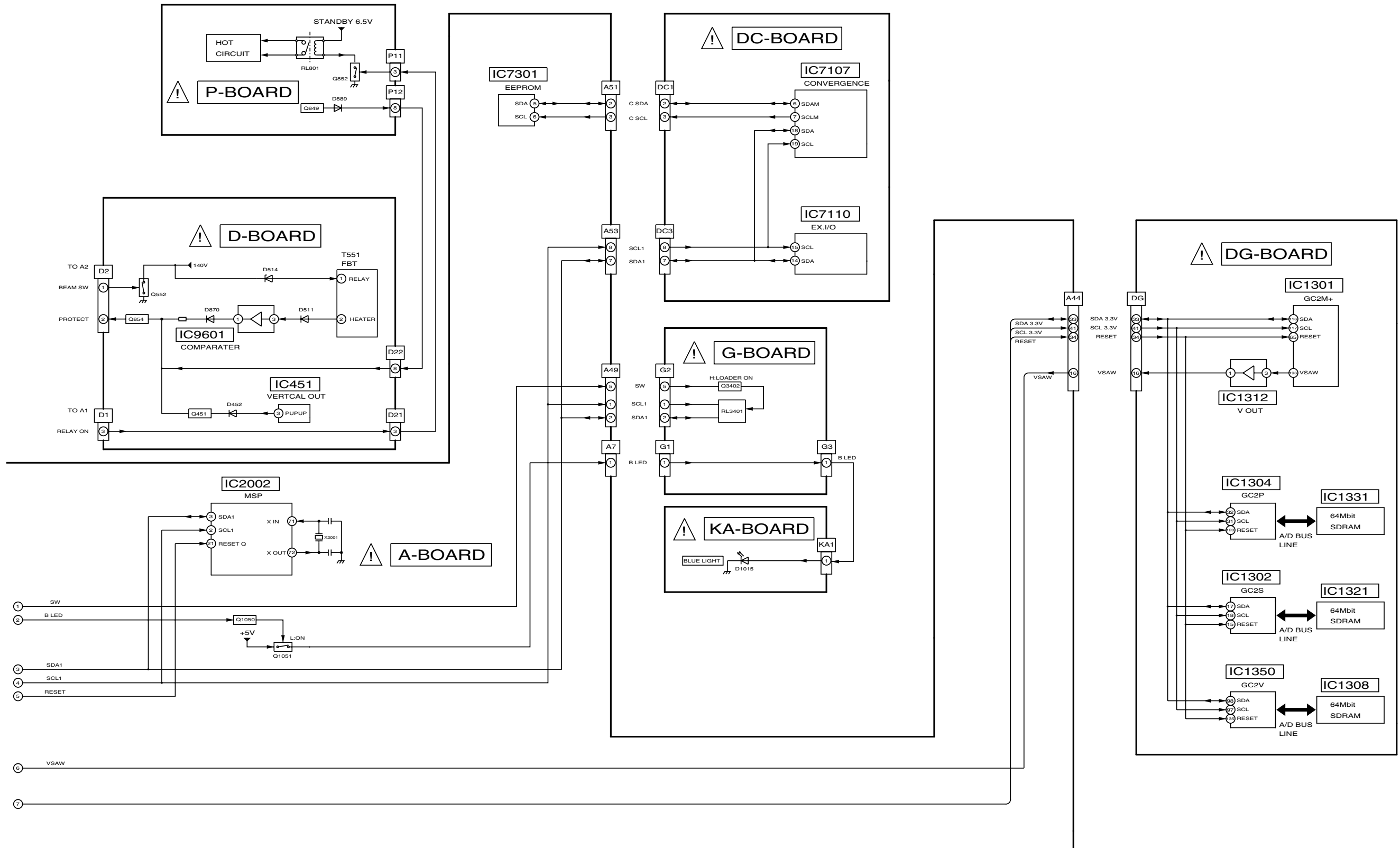
11.7. Location of Lead Wiring (7)

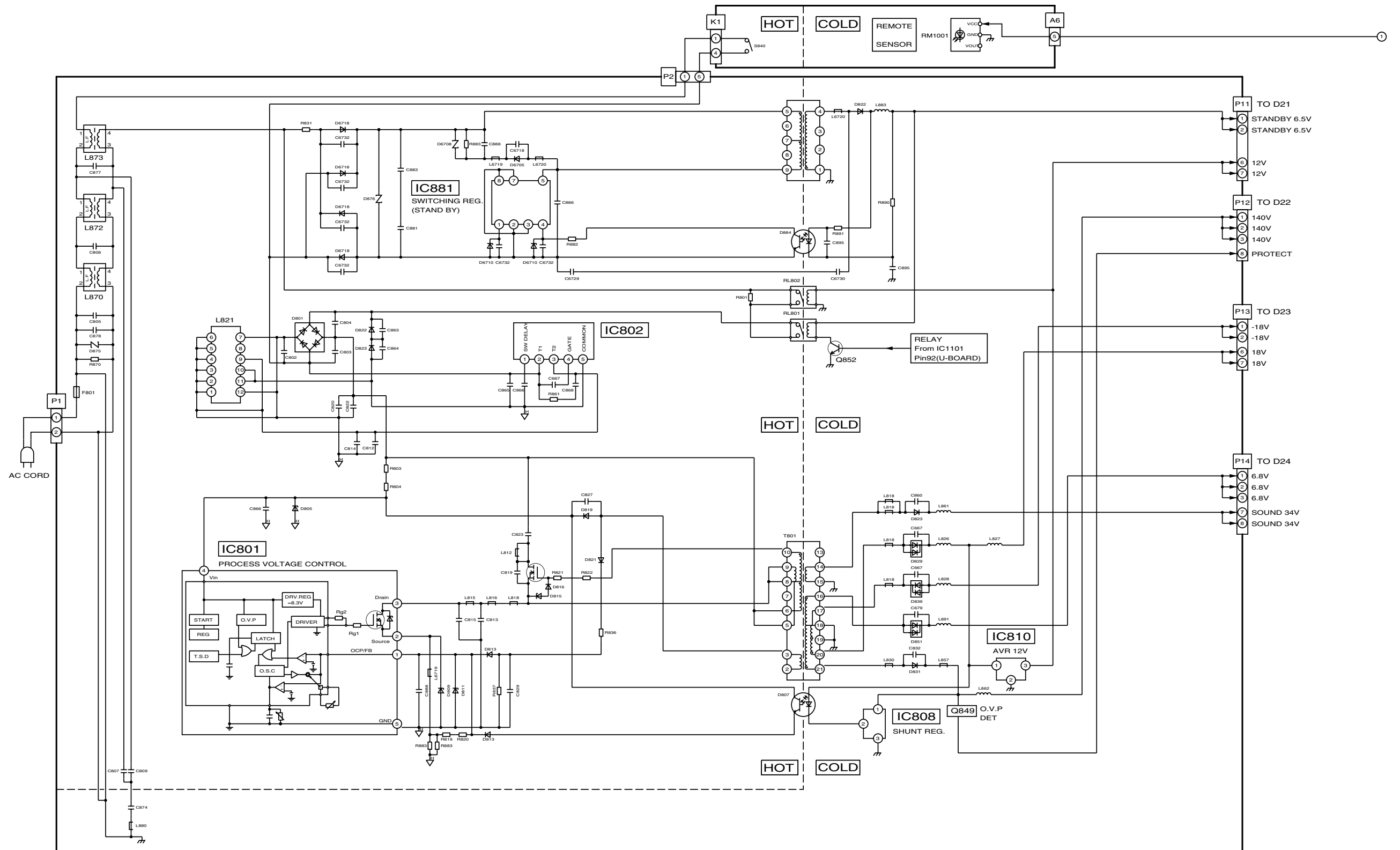


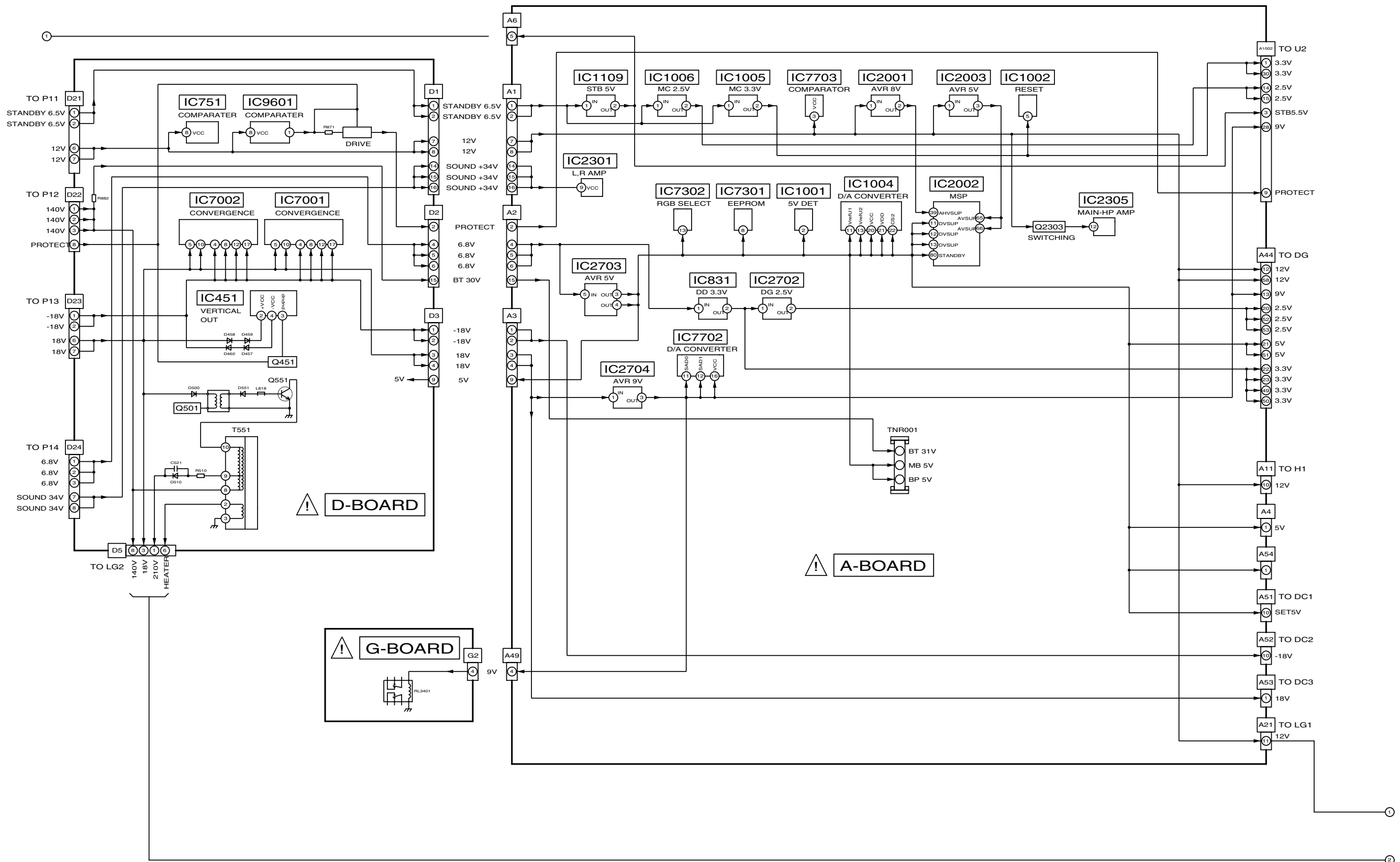
11.8. Location of Lead Wiring (8)

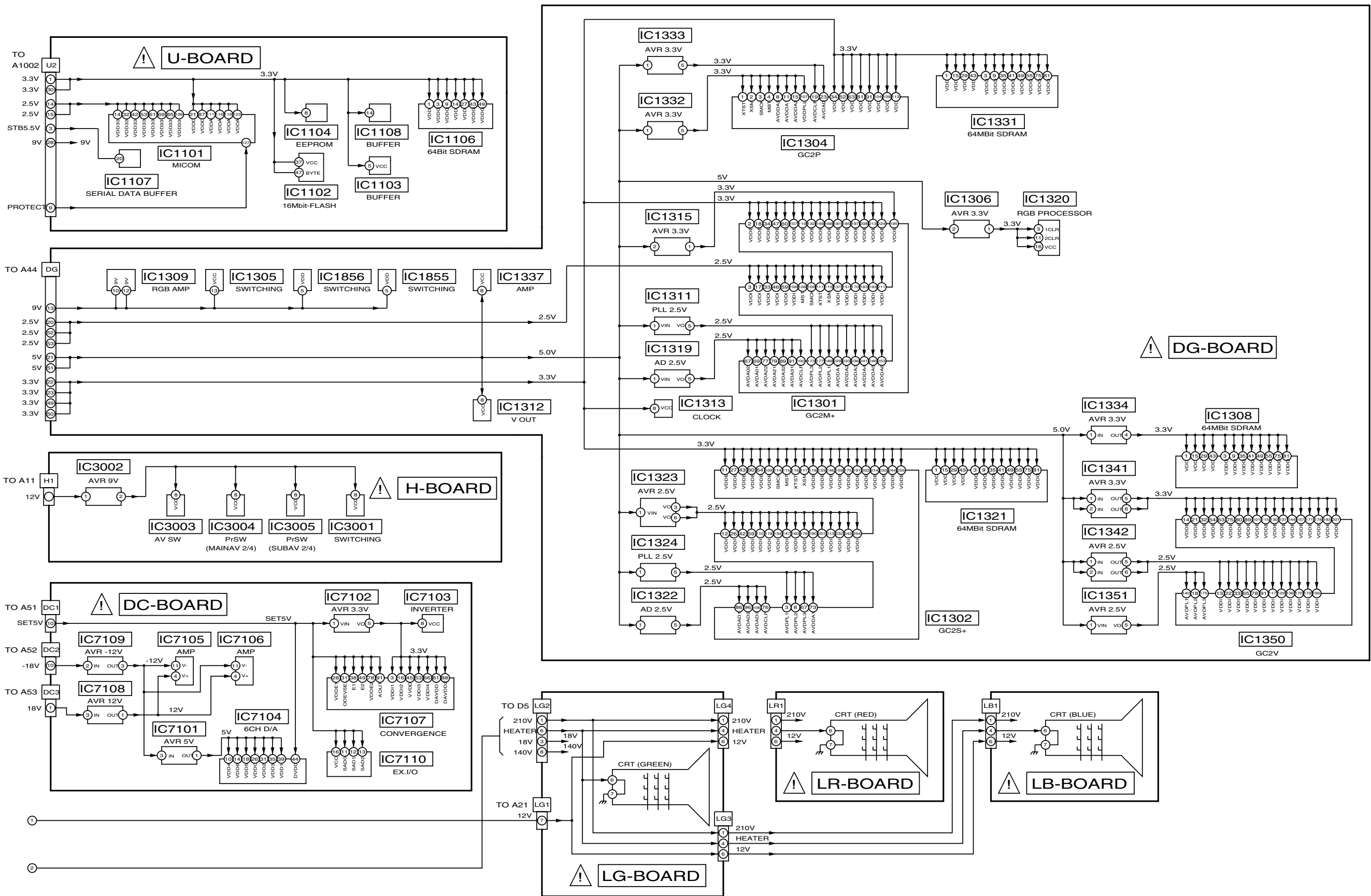






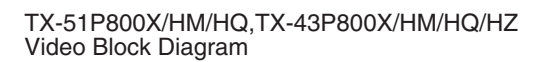


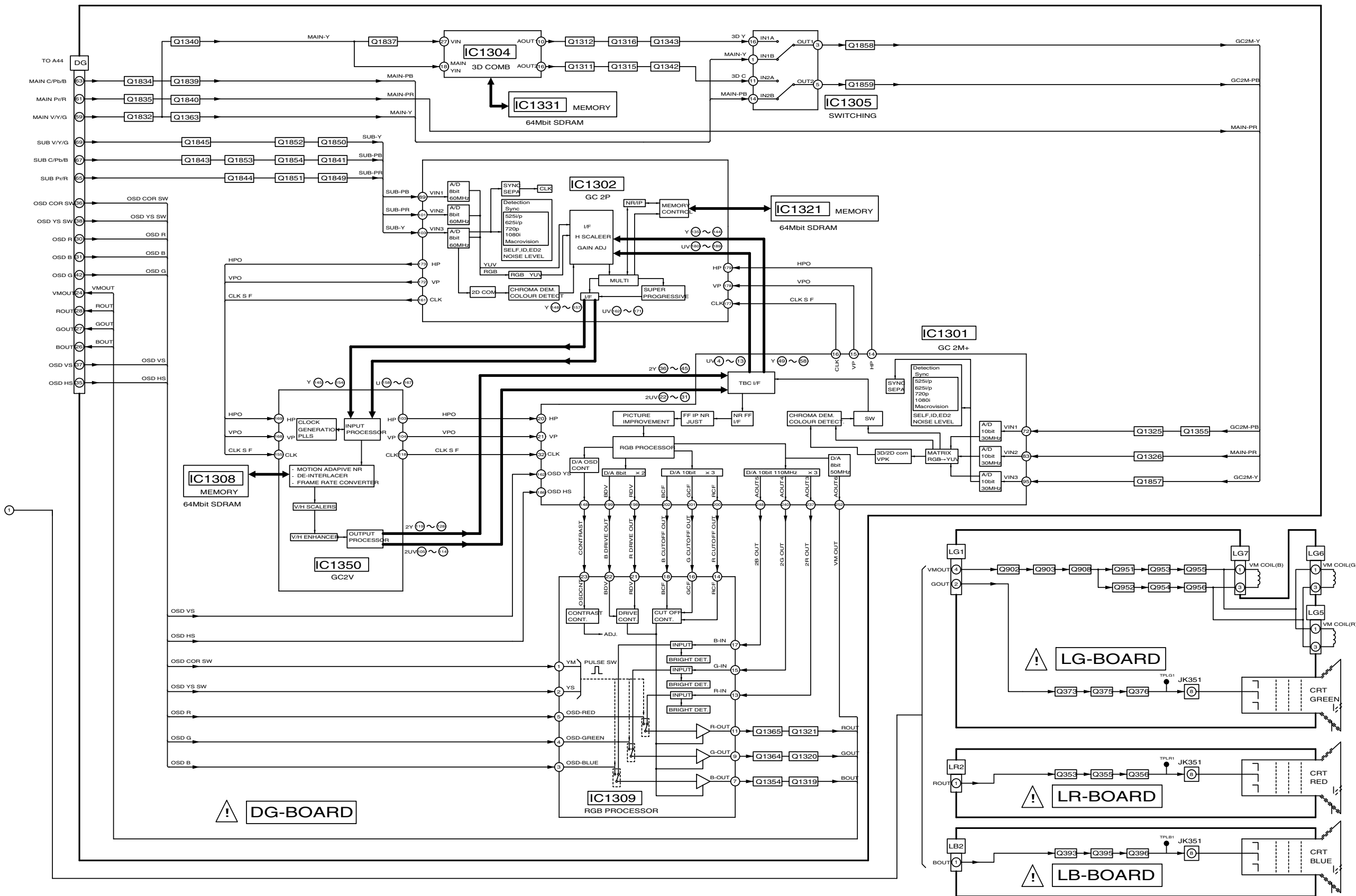




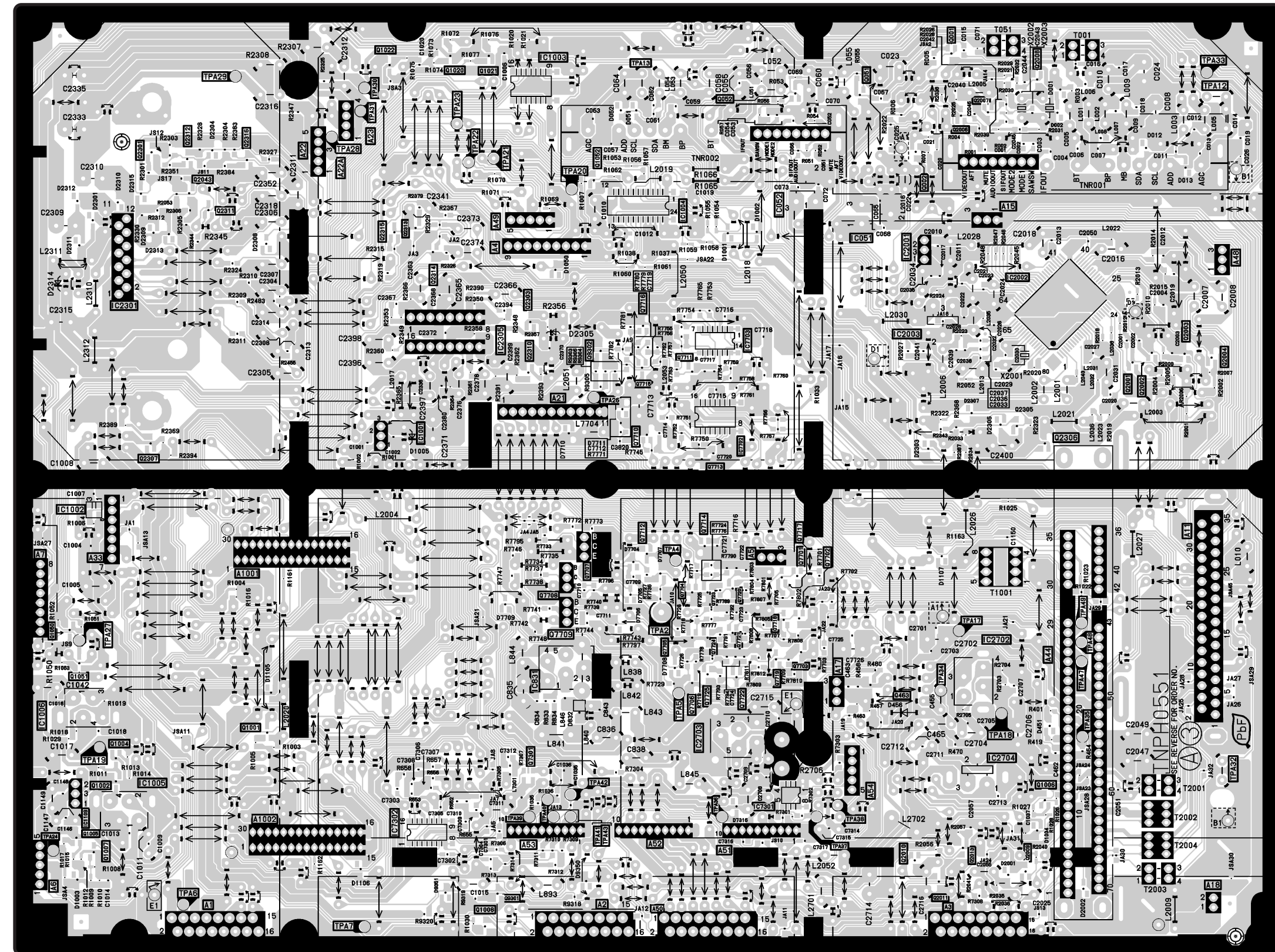
TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
Power Block Diagram

TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
Power Block Diagram



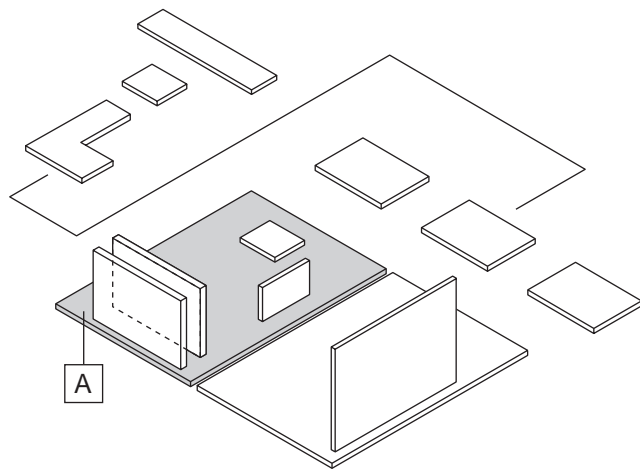


A-Board
TZTNP020JBV(TX-51P800X/HQ) TZTNP020JAV(TX-51P800HM)
TZTNP040HWV(TX-43P800X/HQ/HZ) TZTNP010HWV(TX-43P800HM)



TX-51P800X/HQ	TX-51P800HM	TX-43P800X/HQ/HZ	TX-43P800HM	TX-51P800X/HQ	TX-51P800HM	TX-43P800X/HQ/HZ	TX-43P800HM
A-BOARD TZTNP020JBV	A-BOARD TZTNP020JAV	A-BOARD TZTNP040HWV	A-BOARD TZTNP010HWV	A-BOARD TZTNP020JBV	A-BOARD TZTNP020JAV	A-BOARD TZTNP040HWV	A-BOARD TZTNP010HWV

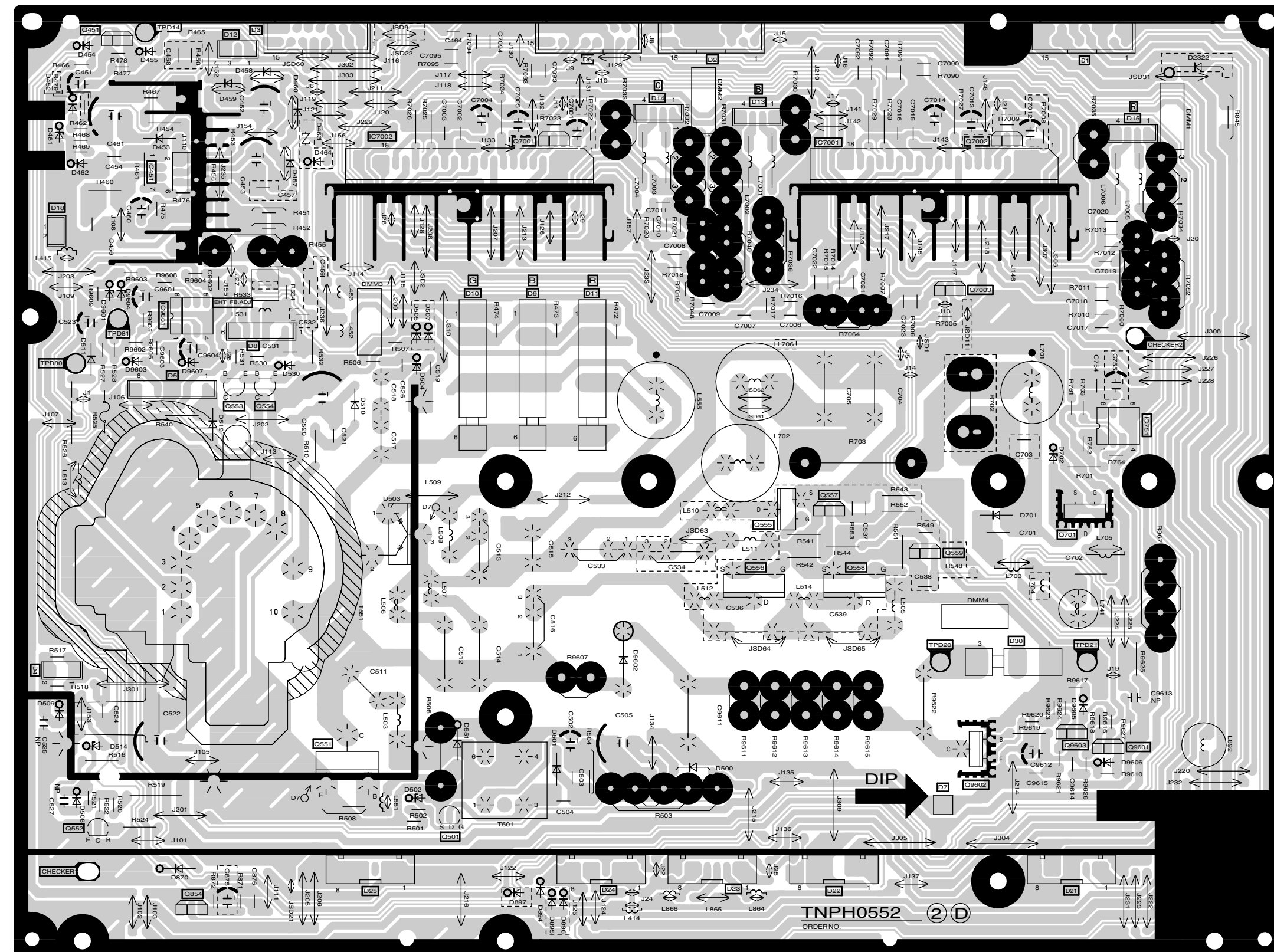
A B C D E F G H I



Parts Location

A-BOARD							
IC		TRANSISTOR				TP	
IC051	F-5	Q001	G-6	Q2311	B-5	TPA2	E-3
IC052	F-5	Q002	F-5	Q2312	B-5	TPA4	E-3
IC831	D-2	Q051	F-6	Q2313	C-5	TPA5	E-2
IC1001	C-4	Q052	E-6	Q2314	D-5	TPA6	B-1
IC1002	B-3	Q463	F-2	Q2315	C-5	TPA7	C-1
IC1003	D-6	Q1001	C-2	Q2316	C-5	TPA12	H-6
IC1004	E-5	Q1002	B-2	Q7301	D-2	TPA13	E-6
IC1005	B-2	Q1004	B-2	Q7701	F-3	TPA17	G-3
IC1006	B-2	Q1005	B-1	Q7702	F-3	TPA18	G-2
IC1109	B-2	Q1006	G-2	Q7703	F-2	TPA19	B-2
IC2001	F-5	Q1007	B-1	Q7704	E-3	TPA20	D-5
IC2002	G-4	Q1008	D-1	Q7705	E-2	TPA21	D-5
IC2003	F-4	Q1020	D-6	Q7706	E-2	TPA22	D-5
IC2301	B-5	Q1021	D-6	Q7707	D-3	TPA23	D-5
IC2305	D-4	Q1022	C-6	Q7708	E-2	TPA24	A-1
IC2702	G-2	Q1050	B-3	Q7709	D-3	TPA26	E-4
IC2703	E-2	Q1051	B-2	Q7710	E-4	TPA27	B-3
IC2704	G-2	Q1052	E-5	Q7711	E-4	TPA28	C-5
IC7301	F-2	Q2001	H-4	Q7712	E-3	TPA29	B-6
IC7302	D-1	Q2002	H-4	Q7713	E-4	TPA30	C-6
IC7702	E-4	Q2003	H-4	Q7714	E-3	TPA31	C-5
IC7703	E-4	Q2004	H-4	Q7715	E-4	TPA32	H-2
		Q2006	G-5	Q7716	E-4	TPA33	H-6
		Q2007	G-6	Q7717	F-3	TPA34	F-2
		Q2008	G-6	Q7718	F-3	TPA35	G-2
		Q2009	G-1	Q7719	F-2	TPA36	E-2
		Q2010	F-1	Q7720	E-3	TPA37	F-2
		Q2011	F-1	Q7721	E-2	TPA38	F-2
		Q2013	G-1	Q7722	E-2	TPA39	D-2
		Q2043	B-5	Q7723	E-3	TPA40	D-2
		Q2301	B-5	Q7724	E-2	TPA41	D-2
		Q2303	D-4	Q7725	E-2	TPA42	D-2
		Q2305	G-4	Q9301	D-1	TPA43	D-2
		Q2306	G-4	Q9302	E-4	TPA47	G-2
		Q2307	B-4			TPA48	G-3
		Q2310	D-4			TPA49	G-3

D-Board(COMONENT SIDE)
 TZNTP010JAV(TX-51P800X/HM/HQ)
 TZNTP010HYV(TX-43P800X/HM/HQ) TZNTP010HYZ(TX-43P800HZ)



TX-51P800X/HM/HQ
 D-BOARD TZNTP010JAV

TX-43P800X/HM/HQ
 D-BOARD TZNTP020HWV

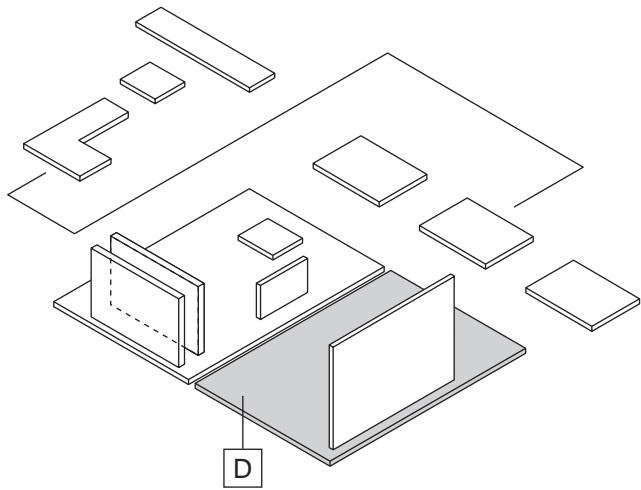
TX-43P800HZ
 D-BOARD TZNTP010HYV

TX-51P800X/HM/HQ
 D-BOARD TZNTP010JAV

TX-43P800X/HM/HQ
 D-BOARD TZNTP020HWV

TX-43P800HZ
 D-BOARD TZNTP010HYV

A B C D E F G H I



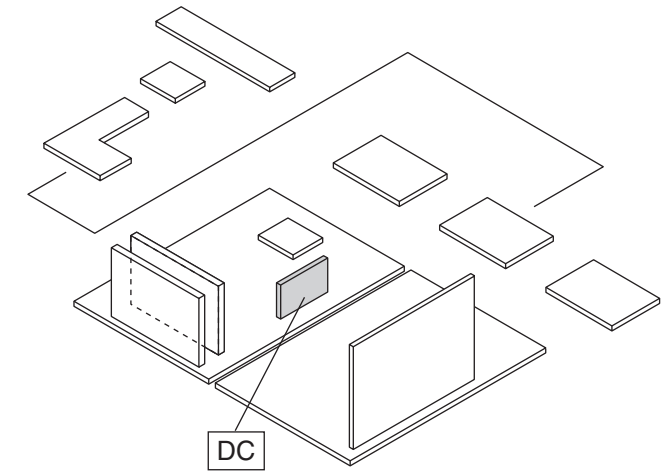
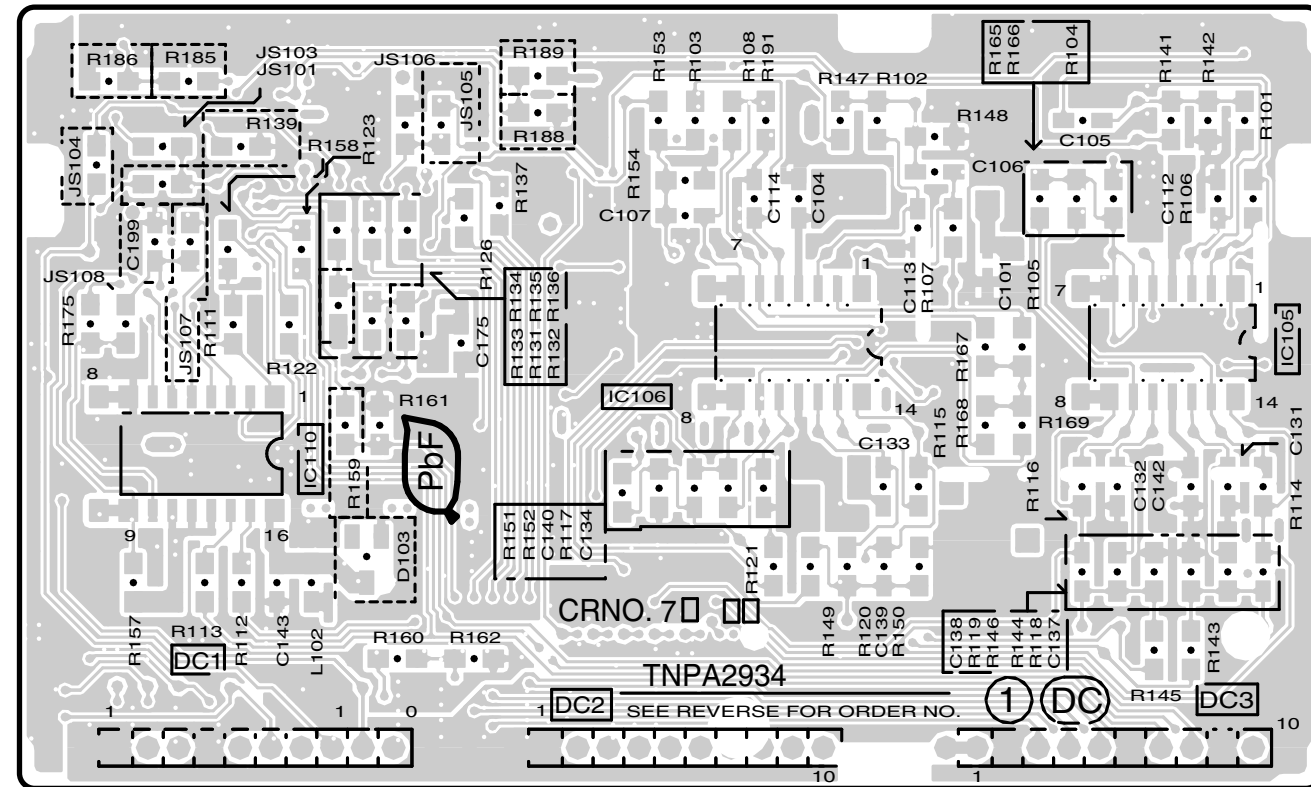
Parts Location

D-BOARD (FOIL SIDE)					
IC		Q7002	C-5	TP46	H-4
IC451	G-5	Q7003	C-5	TP47	H-4
IC751	B-4	Q9601	B-2	TP50	F-4
IC7001	C-5	Q9602	C-2	TP51	F-4
IC7002	F-5	Q9603	C-2	TP52	F-4
IC9601	G-4	TP		TP54	E-4
TRANSISTOR		TP17	D-5	TP55	E-4
Q451	H-6	TP18	D-5	TP56	E-4
Q501	F-2	TP19	D-5	TP58	E-4
Q551	F-2	TP20	D-5	TP59	E-4
Q552	H-1	TP21	E-5	TP60	E-4
Q553	G-4	TP22	E-5	TP85	G-4
Q554	G-4	TP23	E-5	TP86	G-4
Q555	D-3	TP24	E-6	TP87	G-4
Q556	D-3	TP25	B-5	TP88	G-4
Q557	D-3	TP26	B-5	TPD14	H-6
Q558	D-3	TP27	B-5	TPD20	C-2
Q559	C-3	TP28	B-5	TPD21	B-2
Q701	B-3	TP43	G-4	TPD80	H-4
Q854	G-1	TP44	G-4	TPD81	H-4
Q7001	E-5	TP45	G-4		

Parts Location

D-BOARD (COMPONENT SIDE)					
IC		TRANSISTOR		TP	
IC451	B-5	Q451	B-6	TPD14	B-6
IC751	G-4	Q501	D-2	TPD20	F-2
IC7001	F-5	Q551	C-2	TPD21	G-2
IC7002	C-5	Q552	B-1	TPD80	B-4
IC9601	B-4	Q553	B-4	TPD81	B-4
		Q554	C-4		
		Q555	E-3		
		Q556	E-3		
		Q557	F-3		
		Q558	F-3		
		Q559	F-3		
		Q701	G-3		
		Q854	B-1		
		Q7001	D-5		
		Q7002	G-5		
		Q7003	F-4		
		Q9601	G-2		
		Q9602	G-2		
		Q9603	G-2		

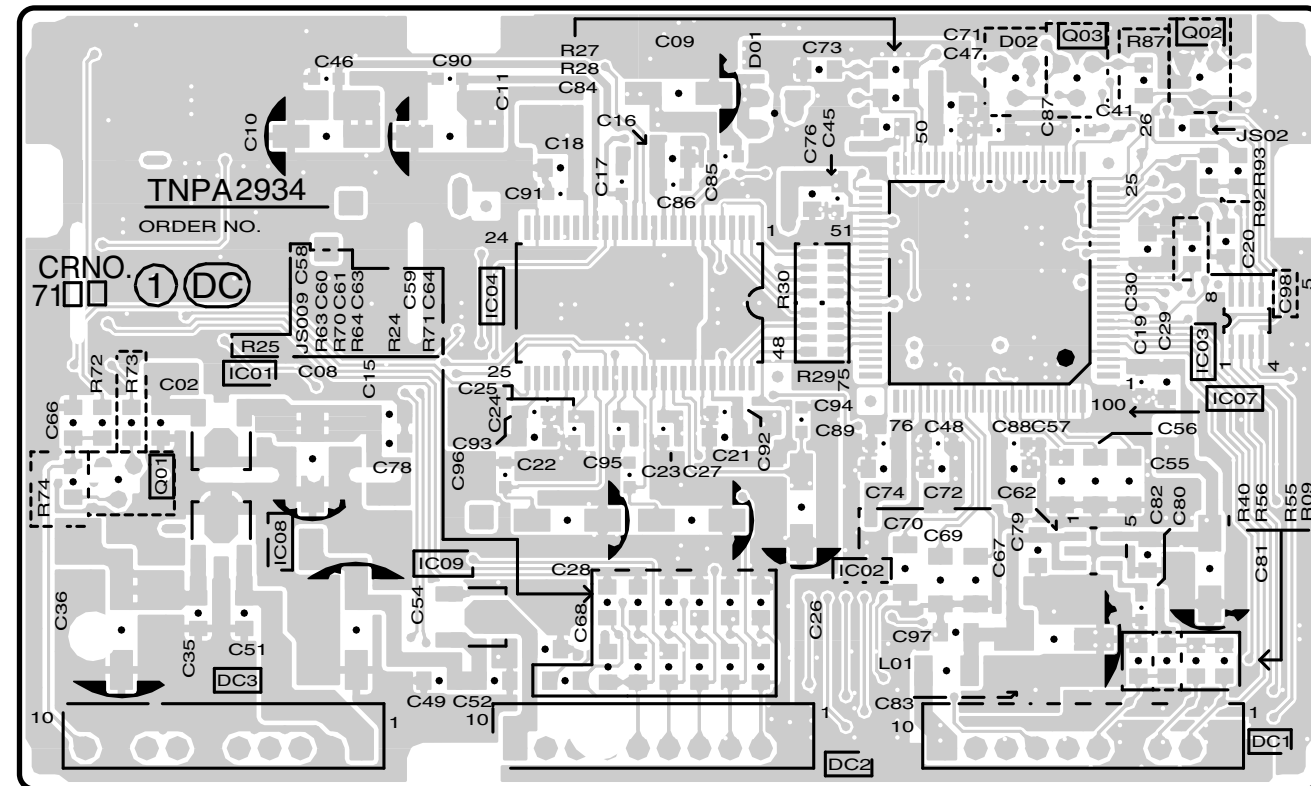
DC-Board(FOIL SIDE)
TZPA2934(51inch Series) TXNDC10HWV(43inch Series)



Parts Location

DC-BOARD (FOIL SIDE)			
IC			
IC7105	E-5		
IC7106	D-5		
IC7110	B-5		

DC-Board(COMPONENT SIDE)
TZPA2934(51inch Series) TXNDC10HWV(43inch Series)



Parts Location

DC-BOARD (COMPONENT SIDE)			
IC		TRANSISTOR	
IC7101	B-2	Q7101	B-2
IC7102	D-2	Q7102	E-3
IC7103	E-2	Q7103	E-3
IC7104	C-2		
IC7107	D-2		
IC7108	B-2		
IC7109	C-1		

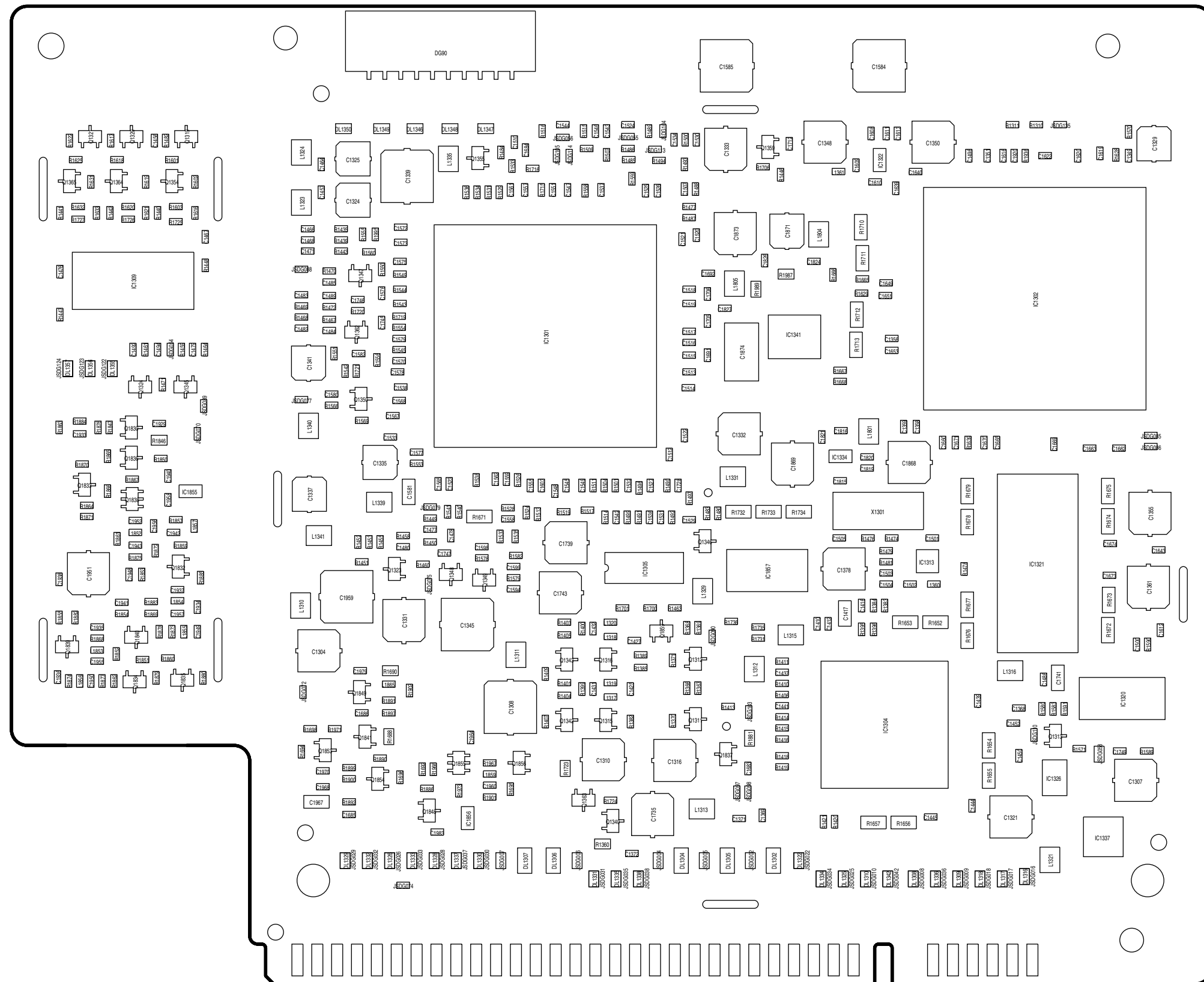
TX-51P800X/HM/HQ
D-BOARD TZPA2934

TX-43P800X/HM/HQ/HZ
D-BOARD TXNDC10HWV

TX-51P800X/HM/HQ
D-BOARD TZPA2934

TX-43P800X/HM/HQ/HZ
D-BOARD TXNDC10HWV

DG-Board(COMPONENT SIDE)
TXNDG10JBV



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1

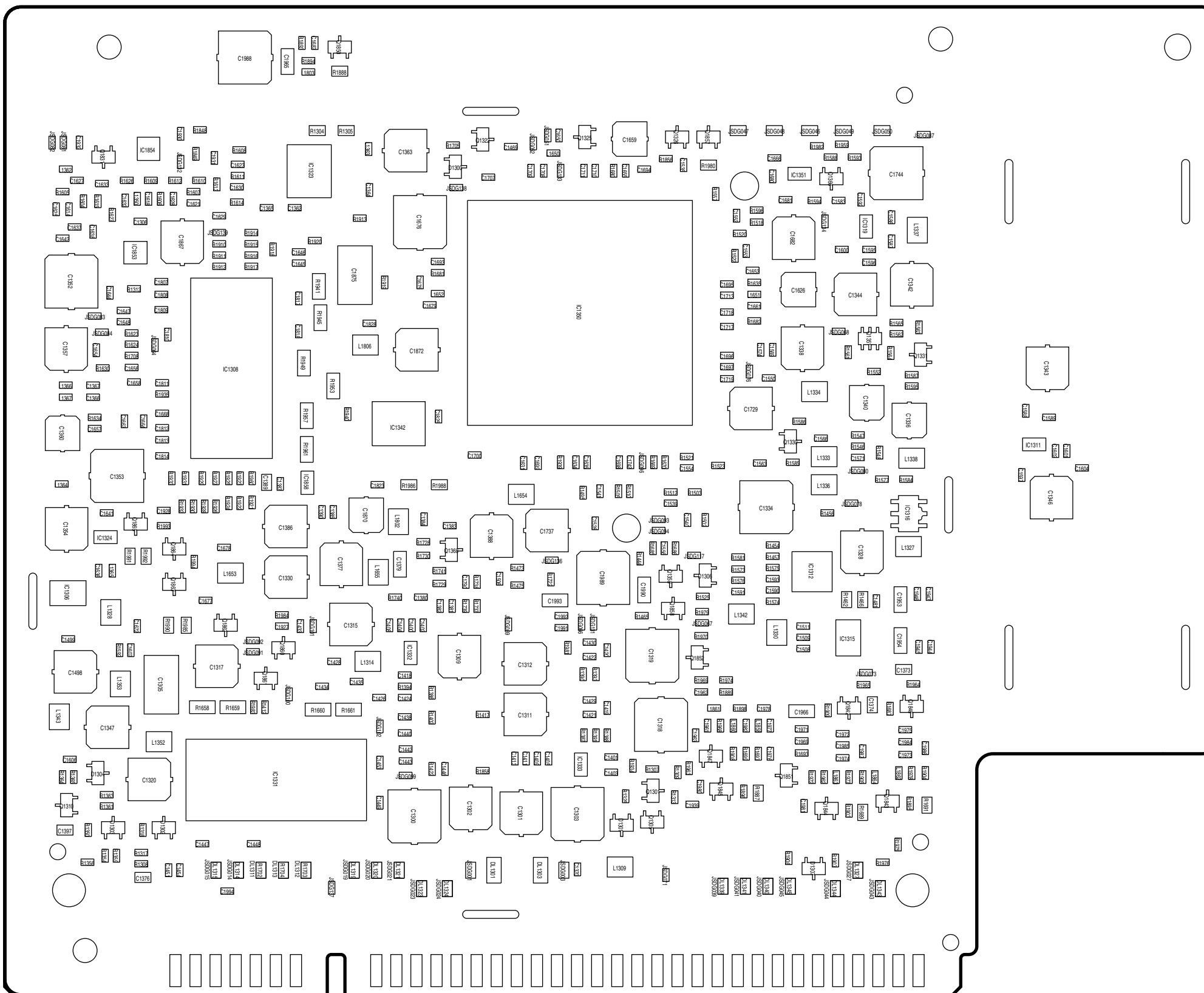


DG-BOARD (COMPONENT SIDE)			
IC			
IC1301	D-4	Q1343	D-3
IC1302	F-5	Q1345	B-4
IC1304	F-2	Q1346	E-3
IC1305	D-3	Q1347	C-5
IC1309	B-5	Q1348	C-3
IC1313	F-3	Q1349	C-3
IC1320	G-2	Q1350	C-4
IC1321	F-3	Q1354	B-5
IC1322	F-5	Q1355	C-5
IC1326	G-2	Q1359	E-5
IC1334	E-4	Q1362	C-4
IC1337	G-2	Q1363	D-2
IC1341	E-4	Q1364	B-5
IC1855	B-3	Q1365	A-5
IC1856	C-2	Q1832	B-3
IC1857	E-3	Q1833	A-4
		Q1834	B-2
		Q1835	B-2
TRANSISTOR		Q1836	B-4
Q1311	D-2	Q1837	E-2
Q1312	E-3	Q1838	A-3
Q1313	F-2	Q1839	A-3
Q1315	D-2	Q1840	B-2
Q1316	D-3	Q1841	C-2
Q1319	B-5	Q1848	C-2
Q1320	B-5	Q1849	C-2
Q1321	A-5	Q1853	B-2
Q1323	C-3	Q1854	C-2
Q1324	B-4	Q1855	C-2
Q1340	D-2	Q1856	D-2
Q1342	D-2	Q1859	D-3

A horizontal timeline with 10 segments labeled A through I. The segments are separated by vertical tick marks. Segment A is the first, followed by B, C, D, E, F, G, H, and I. The labels are centered above each segment.

TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
DG-BOARD TXNDG10JBV

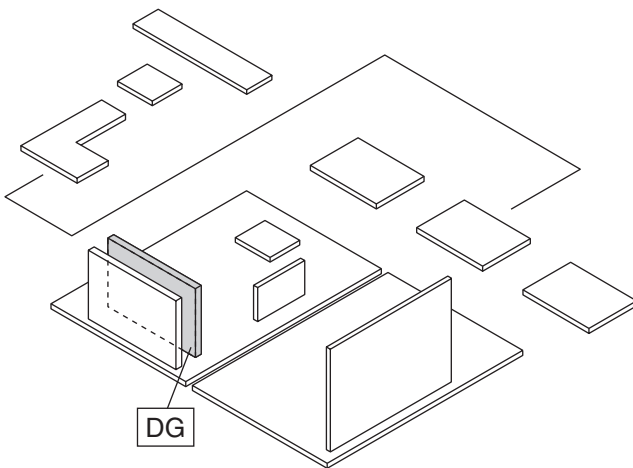
DG-Board(FOIL SIDE)
TXNDG10JBV



TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
DG-BOARD TXNDG10JBV

TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
DG-BOARD TXNDG10JBV

6	
5	
4	
3	
2	
1	



DG-BOARD (FOIL SIDE)			
IC		TRANSISTOR	
IC1306	A-3	Q1301	D-2
IC1308	B-4	Q1305	D-2
IC1311	F-4	Q1310	A-2
IC1312	E-3	Q1322	C-5
IC1315	E-3	Q1325	D-5
IC1316	F-3	Q1326	D-5
IC1319	E-5	Q1330	E-4
IC1323	C-5	Q1331	F-4
IC1324	A-3	Q1351	F-4
IC1331	B-2	Q1358	D-3
IC1332	C-3	Q1366	E-5
IC1333	D-2	Q1368	C-3
IC1342	C-4	Q1831	A-5
IC1350	D-4	Q1842	E-2
IC1351	E-5	Q1843	F-2
IC1853	B-5	Q1844	E-2
IC1854	B-5	Q1845	E-2
IC1858	B-4	Q1846	F-2
		Q1847	E-2
		Q1850	C-6
		Q1851	E-2
		Q1852	E-3
		Q1857	E-5
		Q1858	D-3
		Q1860	B-3
		Q1861	B-3
		Q1862	B-3
		Q1863	B-3
		Q1864	B-3
		Q1865	B-3

A	B	C	D	E	F	G	H	I
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H-Board(COMPONENT SIDE)
TXPA2555AD

6

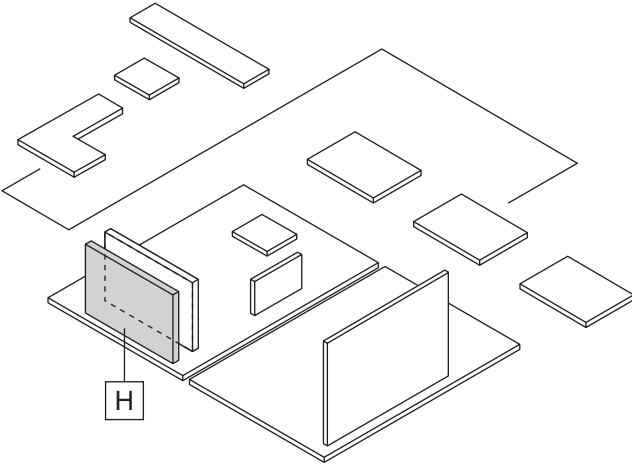
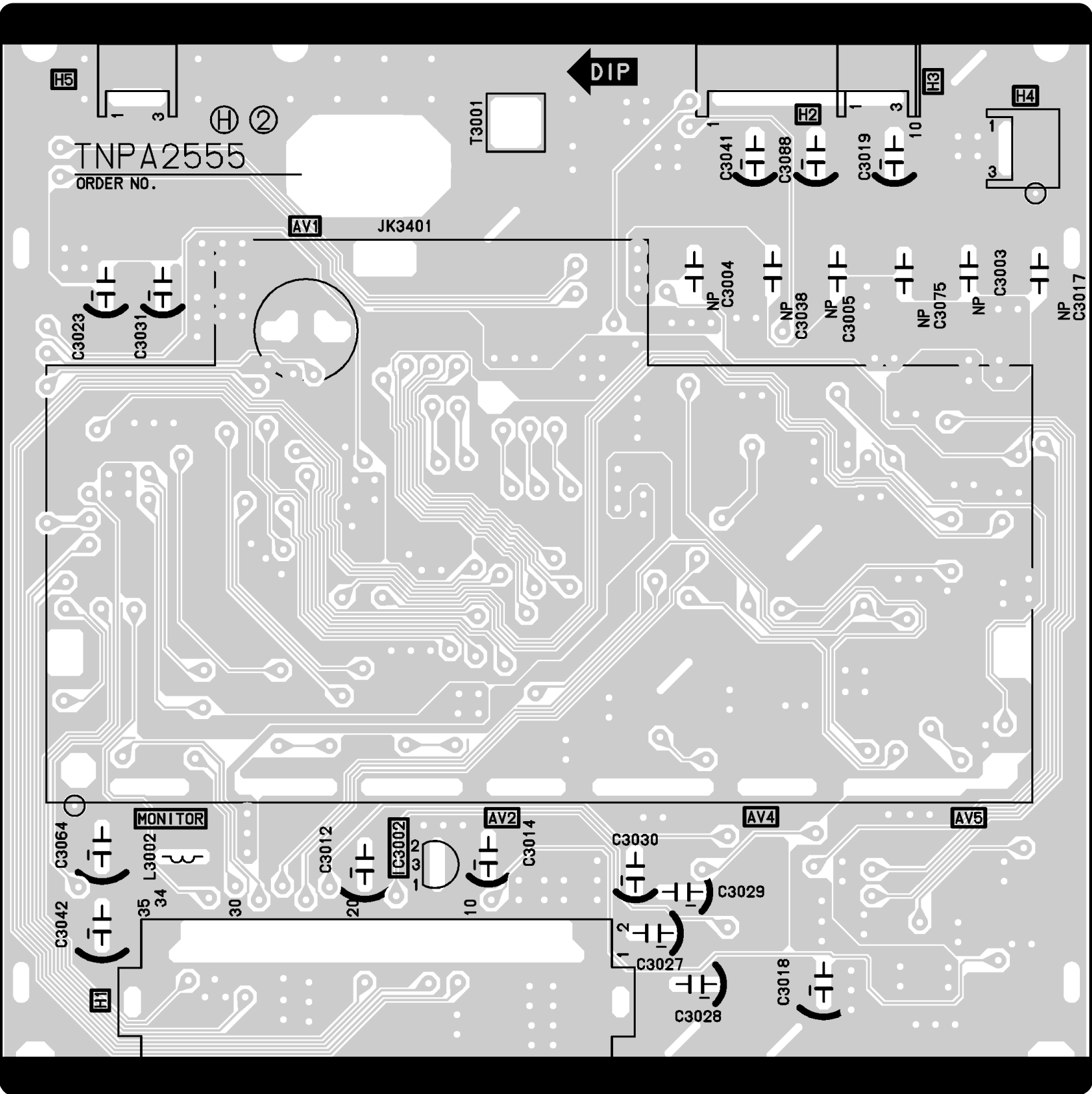
5

4

3

2

1



Parts Location

H-BOARD (COMPONENT SIDE)			
IC			
IC3002	C-2		



2

1

6 |



3 |



1 |



TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
K-BOARD TNPA2940 G-BOARD TNPA2936 KA-BOARD TNPA2941

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1



3



1



LG-BOARD			
TRANSISTOR		TP	
Q373	D-4	TPLG1	D-4
Q374	E-5	TPLG2	D-4
Q375	E-4	TPLG10	D-5
Q376	D-5	TPLG20	E-6
Q902	B-4	TPS1	B-4
Q903	C-5		
Q907	B-4		
Q908	C-6		
Q951	B-6		
Q952	B-6		
Q953	B-5		
Q954	C-5		
Q955	B-5		
Q956	B-4		
Q961	B-5		
Q962	B-4		
Q3361	D-6		
Q3362	D-5		
Q3381	D-5		

LR-BOARD			
TRANSISTOR		TP	
Q353	B-1	TPLR1	B-2
Q354	C-1	TPLR2	A-3
Q355	B-1	TPLR20	C-2
Q356	B-2		
Q3351	B-2		
Q3352	B-3		

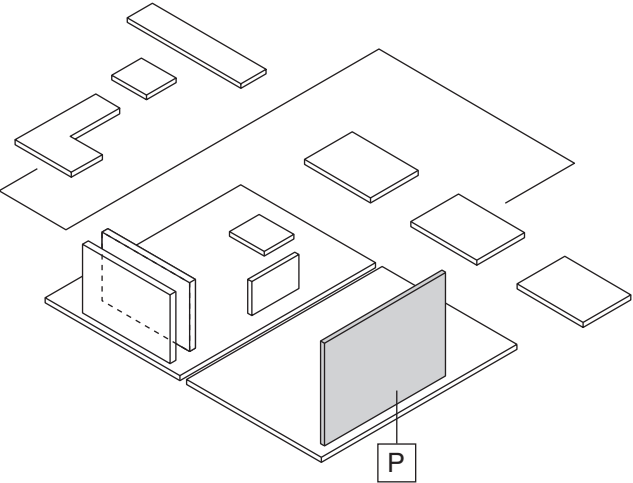
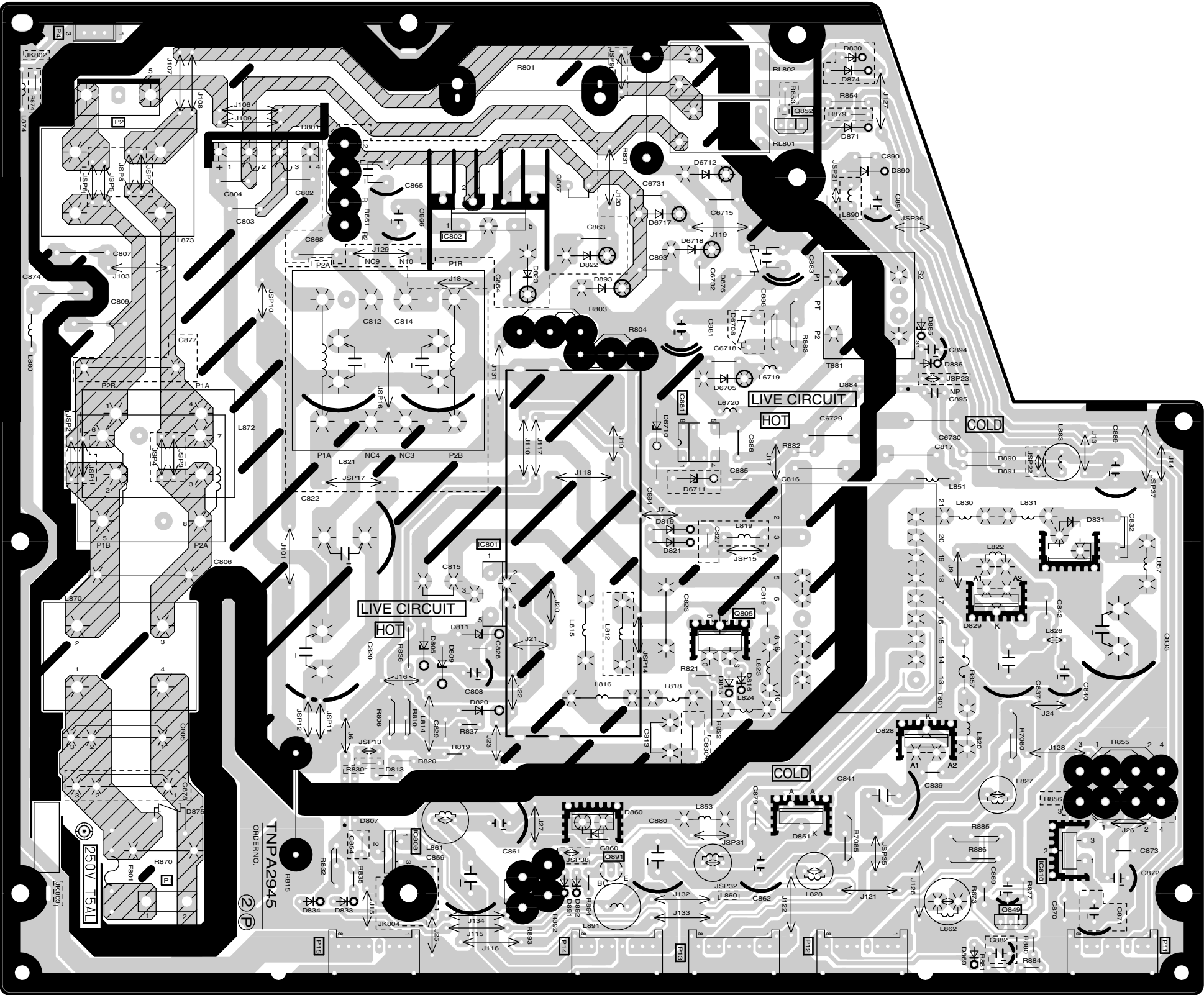
LB-BOARD			
TRANSISTOR		TP	
Q393	D-1	TPLB1	D-2
Q394	E-1	TPLB2	D-3
Q395	D-1	TPLB3	E-3
Q396	E-2	TPLB20	F-2
Q3371	D-2		
Q3372	D-3		

TX-51P800X/HM/HQ LG-BOARD TNPA2333AF LR-BOARD TNPA2332AF LB-BOARD TNPA2334AF
TX-43P800X/HM/HQ/HZ LG-BOARD TNPA2333AG LR-BOARD TNPA2332AG LB-BOARD TNPA2334AG

A	B	C	D	E	F	G	H	
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P-Board(COMPONENT SIDE)
TNPA2945AB(TX-51P800X) TNPA2945(TX-51P800HM/HQ)
TXN/P10HZV(TX-43P800X) TXN/P10HWV(TX-43P800HM/HQ) TXN/P10HYV(TX-43P800HZ)

6
5
4
3
2
1



Parts Location

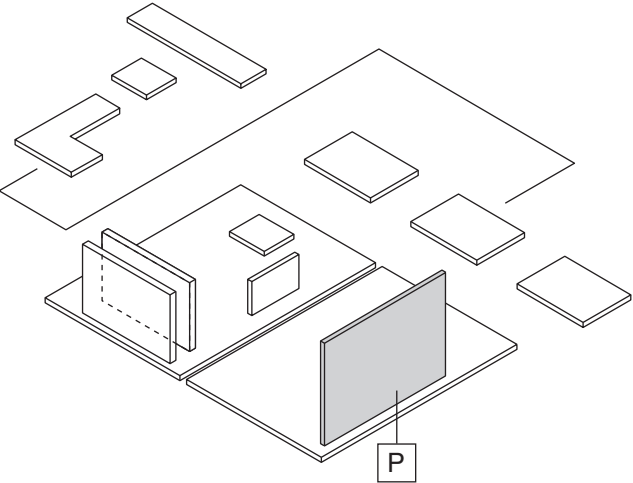
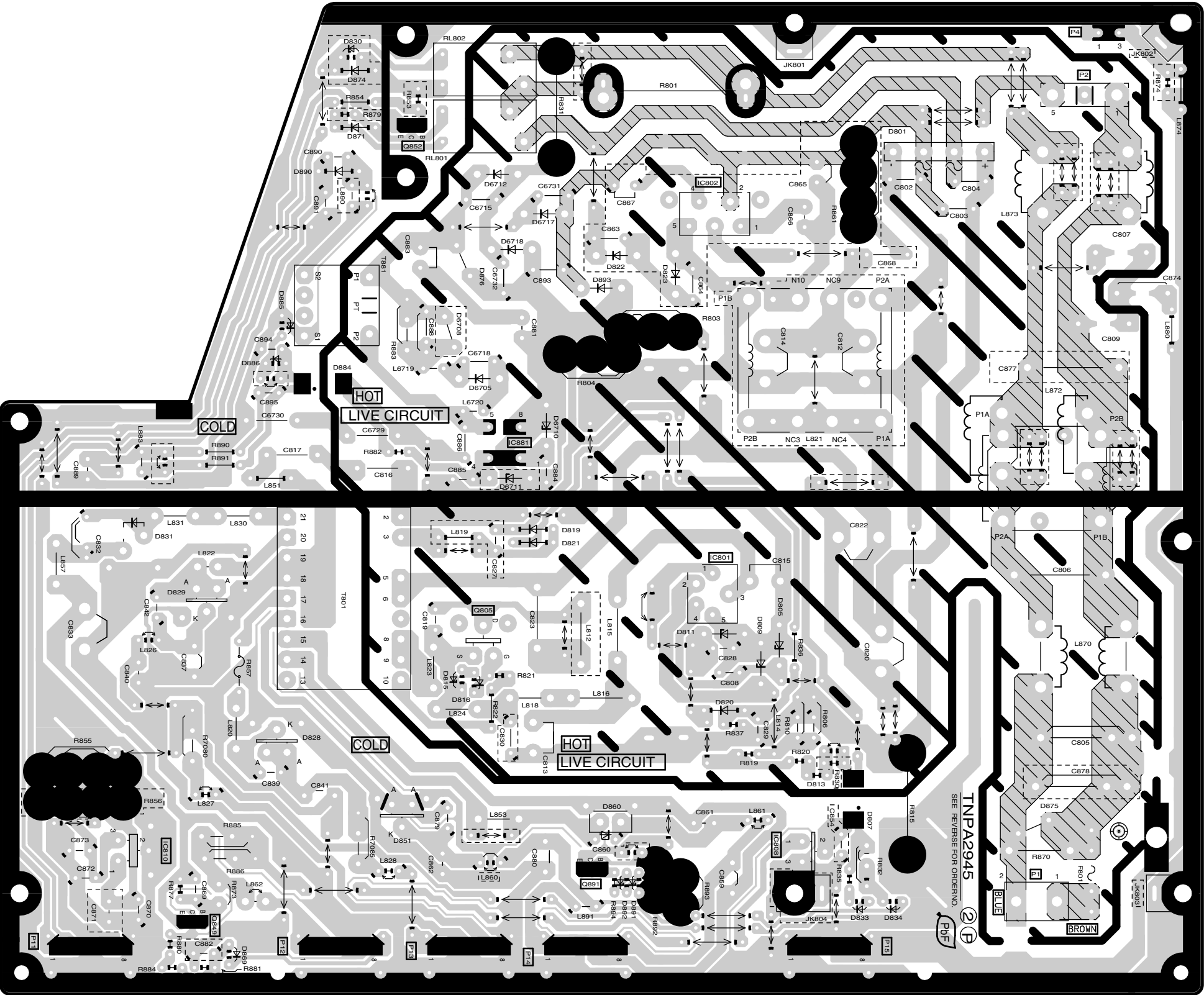
P-BOARD (COMPONENT SIDE)			
IC		TRANSISTOR	
IC801	C-3	Q805	E-3
IC802	C-5	Q849	F-1
IC808	C-2	Q852	E-5
IC810	G-2	Q891	D-1
IC881	E-4		

TX-51P800X TX-51P800HM/HQ TX-43P800X TX-43P800HM/HQ TX-43P800HZ TX-51P800X TX-51P800HM/HQ TX-43P800X TX-43P800HM/HQ TX-43P800HZ
P-BOARD TNPA2945AB P-BOARD TNPA2945 P-BOARD TXN/P10HZV P-BOARD TXN/P10HWV P-BOARD TXN/P10HYV P-BOARD TNPA2945AB P-BOARD TNPA2945 P-BOARD TXN/P10HZV P-BOARD TXN/P10HWV P-BOARD TXN/P10HYV

A B C D E F G H I

P-Board(FOIL SIDE)
TNPA2945AB(TX-51P800X) TNPA2945(TX-51P800HM/HQ)
TXN/P10HZV(TX-43P800X) TXN/P10HWV(TX-43P800HM/HQ) TXN/P10HYV(TX-43P800HZ)

6
5
4
3
2
1



Parts Location

P-BOARD (FOIL SIDE)			
IC		TRANSISTOR	
IC801	E-3	Q805	C-3
IC802	E-5	Q849	B-1
IC808	E-2	Q852	C-5
IC810	B-2	Q891	D-1
IC881	D-4		

TX-51P800X TX-51P800HM/HQ TX-43P800X TX-43P800HM/HQ TX-43P800HZ TX-51P800X TX-51P800HM/HQ TX-43P800X TX-43P800HM/HQ TX-43P800HZ
P-BOARD TNPA2945AB P-BOARD TNPA2945 P-BOARD TXN/P10HZV P-BOARD TXN/P10HWV P-BOARD TXN/P10HYV P-BOARD TNPA2945AB P-BOARD TNPA2945 P-BOARD TXN/P10HZV P-BOARD TXN/P10HWV P-BOARD TXN/P10HYV

A B C D E F G H I

A vertical axis with tick marks and labels 1, 2, 3, 4, 5, 6.

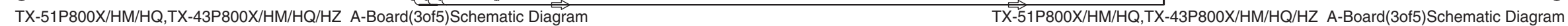


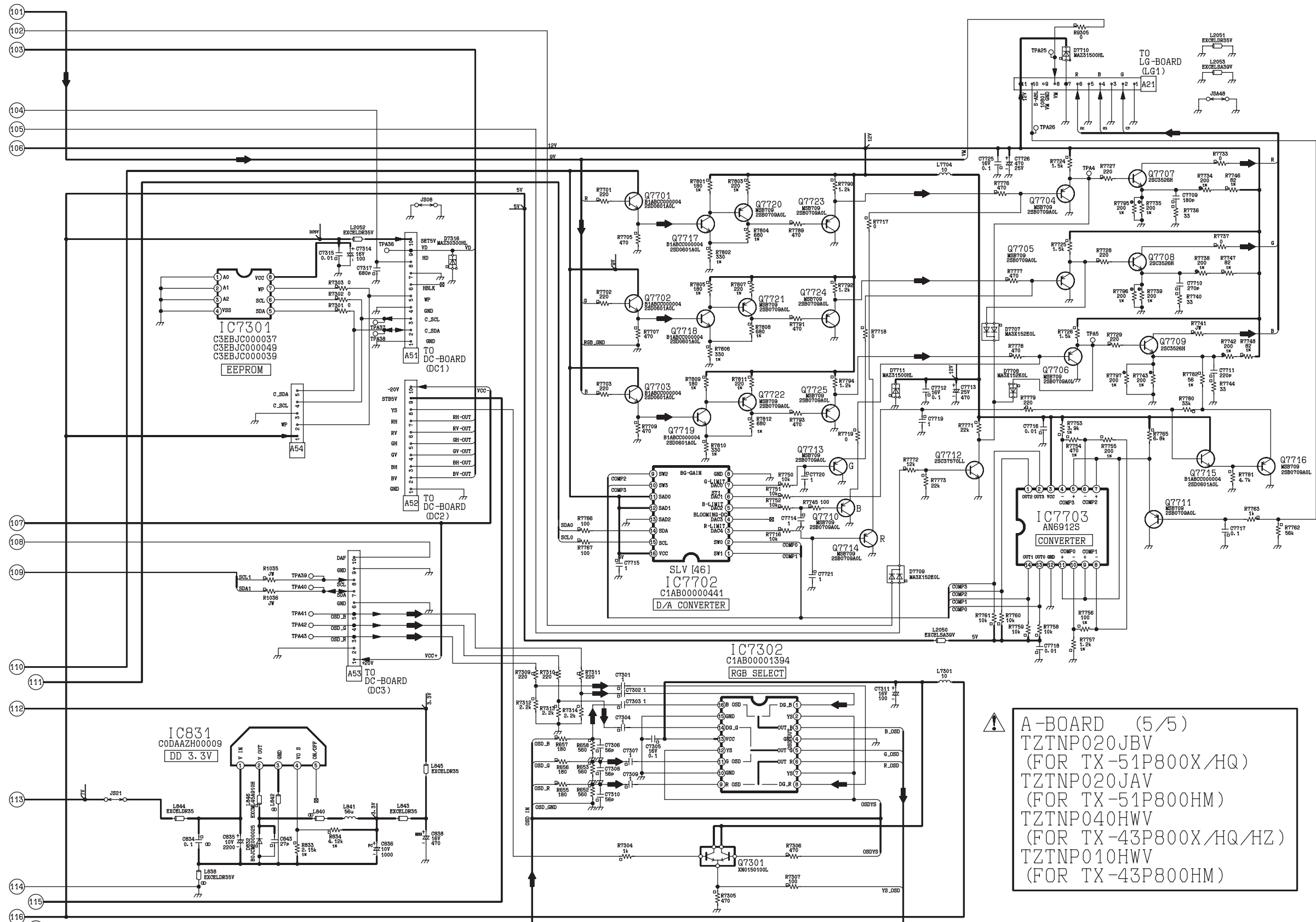
TX-51P800X/HM/HQ U-BOARD TZTNP010JBV	TX-43P800X/HM/HQ/HZ U-BOARD TZTNP030HWV
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U-BOARD (FOIL SIDE)			
IC		TRANSISTOR	
IC1102	E-2	Q1108	E-4
IC1103	D-2	Q1109	E-5
IC1104	C-5	Q1110	F-5
IC1107	B-5	Q1111	E-5
IC1108	F-2	Q1112	C-5





⚠ A-BOARD (5/5)
 TZTNP020JBV
 (FOR TX-51P800X/HQ)
 TZTNP020JAV
 (FOR TX-51P800HM)
 TZTNP040HWV
 (FOR TX-43P800X/HQ/HZ)
 TZTNP010HWV
 (FOR TX-43P800HM)